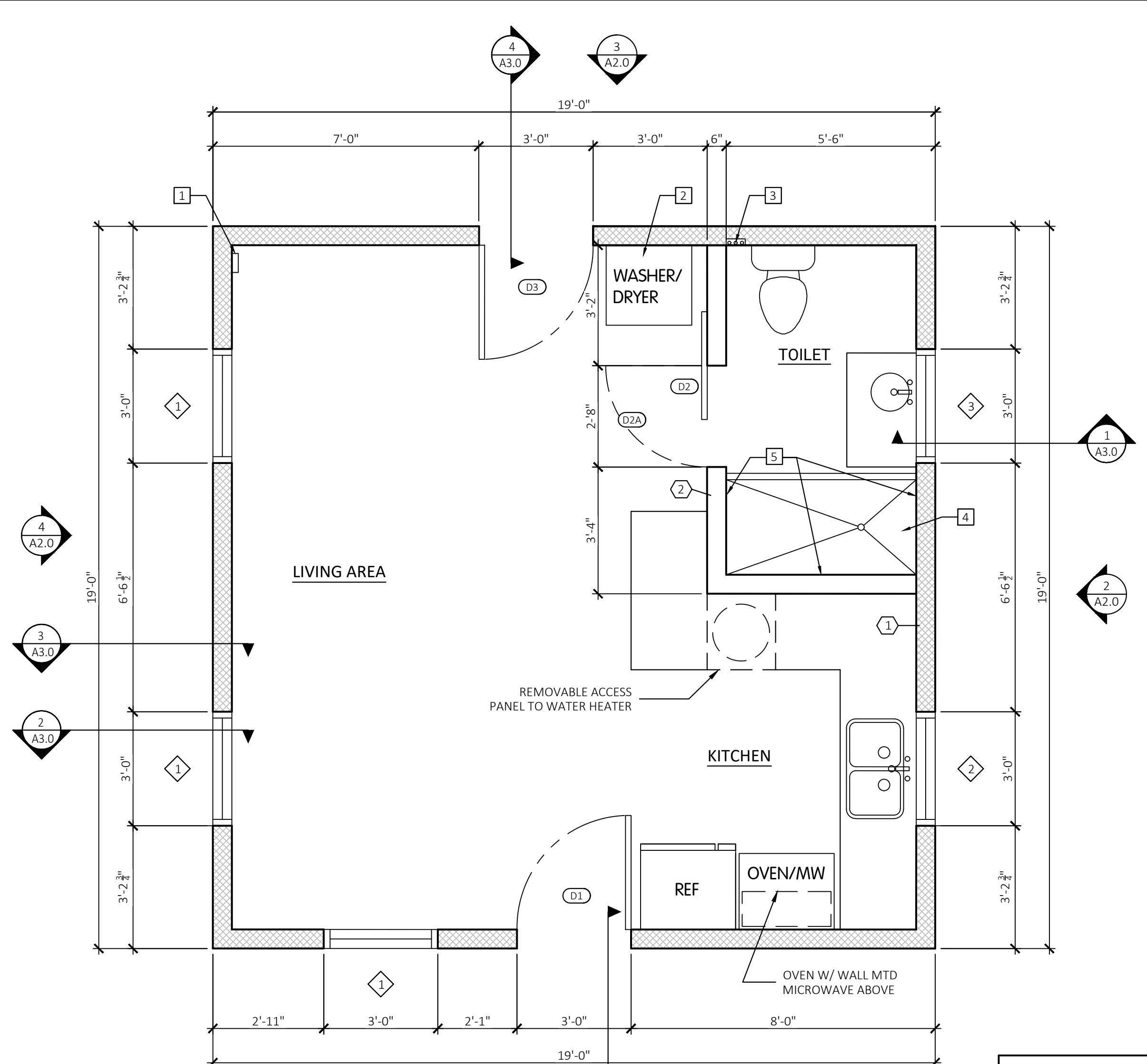


# BOXABL

## STUDIO CASITA TWO DOOR MODEL BXB-000009

BUILDING DATA	BUILDING INFORMATION	FIELD SCOPE OF WORK				
OCCUPANCY CLASSIFICATION: TOTAL BUILDING AREA: BUILDING HEIGHT: CONSTRUCTION TYPE: CLIMATE ZONE:	ADDRESS:  ADDRESS: 1234 STREET CITY: CITY COUNTY: COUNTY STATE: STATE  BUILDING CODES:  • RESIDENTIAL BUILDING CODE: • RESIDENTIAL MECHANICAL CODE: • NATIONAL ELECTRIC CODE: • RESIDENTIAL PLUMBING CODE: • ENERGY CONSERVATION CODE:	<ul style="list-style-type: none"> <li>BOXABL UNITS ARE FABRICATED WITH A FLAT ROOF. IT IS THE RESPONSIBILITY OF THE OWNER/INSTALLER TO INSTALL A CODE APPROVED PITCHED ROOF ON-SITE</li> <li>FOUNDATION SYSTEMS MAY BE REQUIRED BY YOUR LOCAL AHJ, SOME FOUNDATION DESIGNS ARE FOUND IN THIS PLAN SET, MORE CAN BE FOUND AT BOXABL.COM/FOUNDATIONS. IT IS THE OWNER'S RESPONSIBILITY TO HAVE AN APPROPRIATE FOUNDATION BUILT FOR THE SITE CONDITIONS</li> <li>THE OWNER IS RESPONSIBLE FOR CONNECTING BOXABL UNITS TO LOCAL UTILITIES. UTILITY CONNECTION SIZES &amp; LOCATIONS CAN BE FOUND ON THE MEP SUBSEQUENT SHEETS.</li> <li>THE OWNER IS RESPONSIBLE FOR ERECTING THE BOXABL HINGED PANEL SYSTEM AND INTERLOCKING PANELS USING HARDWARE PROVIDED PER INSTALLATION INSTRUCTIONS SPECIFIC TO THEIR MODEL.</li> <li>FINAL SHOWER INSTALLATION ON-SITE MAY BE REQUIRED SUCH AS PANEL INSTALLATION OR CAULKING. SEE SPECIFIC UNIT OWNERS MANUAL FOR DETAILS.</li> <li>THE OWNER IS RESPONSIBLE FOR THE INSTALLATION OF MISCELLANEOUS ITEMS WHICH MAY INCLUDE BUT ARE NOT LIMITED TO: THE BATHROOM MIRROR, BATHROOM DOOR, EXTERIOR LIGHT SCONCES, INTERIOR PENDANT LIGHT, SMOKE DETECTOR, REFRIGERATOR, WASHER DRYER UNIT, OVER THE FRIDGE CABINETRY &amp; HIDE PANELS AND THE BREAKFAST BAR COUNTERTOP.</li> <li>FINISH + SEAL PLUMBING VENTS ON SITE. BOXABL TO PROVIDE FACTORY INSTALLED HUB FITTINGS IN ROOF PANELS TO ACCOMMODATE THE VERTICAL PLUMBING VENTS</li> </ul>				
GENERAL NOTES		FACTORY SCOPE OF WORK				
<p>THE ARCHITECT AND HIS CONSULTANTS DO NOT WARRANTY OR GUARANTEE THE COMPLETENESS OF THE WORK BEYOND A REASONABLE DILIGENCE. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS ARE FOUND TO EXIST IN THE WORK PRODUCT, THE ARCHITECT SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THE ISSUE. FAILURE TO PROMPTLY NOTIFY THE ARCHITECT OF SUCH CONDITIONS, SHALL ABSOLVE THE ARCHITECT FROM ANY RESPONSIBILITY OF SUCH FAILURE. ACTION TAKEN WITHOUT THE KNOWLEDGE AND CONSENT OF THE ARCHITECT, IN CONTRADICTION TO THE WORK PRODUCT, OR THE RECOMMENDATIONS OF THE ARCHITECT SHALL BECOME THE RESPONSIBILITY OF THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION.</p> <p>THESE DRAWINGS WERE PREPARED BASED ON THE ASSUMPTION THAT ANY CONTRACTOR, SUBCONTRACTOR, SUPPLIER, OR VENDOR INVOLVED IN THE CONSTRUCTION OF THE WORK DESCRIBED HEREIN HAS EXPERIENCE IN THEIR RESPECTIVE AREAS OR DISCIPLINES THAT MAKE UP THE SCOPE OF THE PROJECT.</p> <p>MANUFACTURERS COMPLIANCE CERTIFICATE CAN BE FOUND INSIDE THE ELECTRICAL SUB PANEL DOOR.</p> <p>THESE UNITS ARE PREFABRICATED FACTORY BUILT BUILDINGS. PLUMBING, ELECTRICAL, &amp; HVAC ARE PRE-INSTALLED, AND ARE CONNECTED TO INCOMING UTILITIES WHEN THE UNIT IS SET ON SITE.</p> <p>FOUNDATION SYSTEM IS PERMITTED &amp; INSTALLED SEPARATELY BY THE UNIT OWNER.</p> <p>THIS SET IS INTENDED TO BE USED IN CONJUNCTION WITH THE MANUFACTURERS PANEL DRAWINGS AND STRUCTURAL DRAWINGS.</p>		<ul style="list-style-type: none"> <li>ALL EXTERIOR AND INTERIOR WALLS, FLOORS AND ROOFS ARE PRE-BUILT IN THE FACTORY AND PRE-FINISHED. SOME TOUCH UP WORK MAY BE NECESSARY AT PANEL HINGE POINTS ON-SITE.</li> <li>ALL INTERIOR ELECTRICAL DEVICES ARE PRE-INSTALLED AND TESTED EXCEPT FOR SMOKE DETECTORS, INTERNAL PENDANT LIGHT, AND EXTERIOR SCONCE WHICH ARE PROVIDED BUT FIELD INSTALLED.</li> <li>ALL INTERIOR PLUMBING WATER LINES &amp; DRAINS ARE FACTORY INSTALLED APART FROM THE REFRIGERATOR WATER LINE CONNECTION AND WASHER-DRYER INSTALLATION.</li> <li>ALL APPLIANCES EXCEPT FOR THE REFRIGERATOR, RANGE, AND WASHER-DRYER UNIT ARE PRE-INSTALLED. REFRIGERATOR AND WASHER-DRYER UNIT ARE INCLUDED BUT SITE-INSTALLED.</li> <li>OTHER MISCELLANEOUS COMPONENTS PER "CUSTOMER INSTALL KIT" ARE INCLUDED BUT MUST BE FIELD INSTALLED. THESE MAY INCLUDE BUT NOT BE LIMITED TO: <ul style="list-style-type: none"> <li>• BREAKFAST BAR COUNTERTOP COMPONENTS</li> <li>• WASHER DRYER CABINET BOX</li> <li>• OVER THE REFRIGERATOR CABINET</li> <li>• MISC. ACCENT LIGHTING</li> <li>• SMOKE DETECTORS</li> <li>• INTERIOR AND EXTERIOR TRIM COMPONENTS</li> </ul> </li> </ul>				
DATE: <input type="text"/>	REV: <input type="text"/>	DESCRIPTION: <input type="text"/>	<b>BOXABL INC.</b> 5345 EAST NORTH BELT ROAD NORTH LAS VEGAS, NV 89115, USA +1(702) 500-9000 HELLO@BOXABL.COM	<b>MODEL:</b> 2 DOOR CASITA <b>BXB-000009</b>  <b>SHEET:</b> G1.0	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BOXABL INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BOXABL INC. IS PROHIBITED.	



**FLOOR PLAN**  
SCALE: 3/8" = 1'-0"

DATE:	REV:	DESCRIPTION:

# BOXABL INC.

5345 EAST NORTH BELT ROAD  
NORTH LAS VEGAS, NV 89115, USA

**MODEL: 2 DOOR CASITA  
BXB-000009**

SHEET: A1.0

## LEGEND

The diagram illustrates four architectural symbols and their corresponding labels:

- A square symbol with a horizontal arrow pointing right, labeled "KEY NOTE".
- A diamond-shaped symbol containing the number "1", labeled "WINDOW TAG SEE A1.0".
- A thick horizontal bar symbol, labeled "SIP PANEL".
- A hexagonal symbol containing the number "1", labeled "SIP PANEL".
- A thick horizontal bar symbol, labeled "INTERIOR WALL".
- A circle containing the letters "D#", labeled "DOOR TAG SEE A1.0".

# FLOOR PLAN KEYNOTES

- 1 WALL MOUNTED SMOKE DETECTOR 20' AWAY FROM COOKING APPLIANCE
- 2 VENTLESS COMBO WASHER/DRYER UNIT
- 3 WASHER OUTLET BOX. RUN HOSES THRU PARTITIONS TO CONNECT TO WASHER/DRYER UNIT
- 4 30" x 60" SHOWER WITH 2" CURB  
(SEE P2.0 + P3.0 FOR SHOWER OPTION; SHEET 2.1 + 3.1 FOR BATHTUB OPTION)
- 5 BATHTUB AND/OR SHOWER FLOORS OR WALLS SHALL BE FINISHED WITH A NON-ABSORBENT SURFACE 6'-0" A.F.F.

## NOTES

- SEE MANUFACTURER'S DRAWINGS FOR UTILITY CONNECTIONS, PANEL DETAILS, MODULAR CONNECTIONS & ALL RELATED STRUCTURAL DETAILS
  - FINAL DIMENSIONS ARE WITHIN  $\pm 1"$  OF DIMENSIONS SHOWN BASED ON MANUFACTURING TOLERANCES

## NATURAL LIGHT SCHEDULE (8% REQUIRED)

BASED OFF 2018 IRC, SECTION R303.1

ROOM	TOTAL SQ. FT.	NATURAL LIGHT PROVIDED	NATURAL LIGHT REQUIRED	ACTUAL PERCENTAGE
LIVING AREA	208 SF	54 SF	16.64 SF	26%
KITCHEN	66 SF	12 SF	5.28 SF	18%
TOILET	44 SF	6 SF *	1.32 SF	13%

## NATURAL VENTILATION SCHEDULE (4% REQUIRED)

BASED OFF 2018 IRC, SECTION R303.1  
LIVING ROOM & KITCHEN CONSIDERED AN ADJOINING SPACE

ROOM	TOTAL SQ. FT.	WINDOW VENT SQ. FT. PROVIDED	VENTILATION REQUIRED	ACTUAL PERCENTAGE
LIVING AREA	274 SF	27 SF	11 SF	9.9%
KITCHEN				
TOILET	44 SF	0 SF *	MECH. VENTED - 70 CFM	N/A

\* ARTIFICIAL LIGHT AND VENTILATION PROVIDED PER EXCEPTION OF IBC SECTION R303.3

## WINDOW & DOOR SCHEDULE

NUMBER	PRODUCT	CONFIGURATION	SIZE	MATERIAL	U-FACTOR	SOLAR HEAT GAIN (SHGC)	DPI	NOTES
1	WINDOW	SINGLE HUNG	3'-0" X 6'-0"	VINYL	0.25	0.21	+20/-20	
2	WINDOW	FIXED	3'-0" X 4'-0"	VINYL	0.22	0.23	+20/-20	
3	WINDOW	FIXED	3'-0" X 2'-0"	VINYL	0.22	0.23	+20/-20	
D1	DOOR	ENTRY DOOR	3'-0" X 8'-0"	FIBERGLASS	0.15	0	+55/-60	
D2	DOOR	TOILET DOOR	2'-10" X 8'-0"	BARN DOOR	0	0	0	BARN-STYLE SLIDER
D2A	DOOR	OPTIONAL TOILET DOOR	2'-8" X 8'-0"		0	0	0	SWINGING DOOR
D3	DOOR	REAR DOOR	3'-0 X 8'-0"	FIBERGLASS	0.15	0	+55/-60	

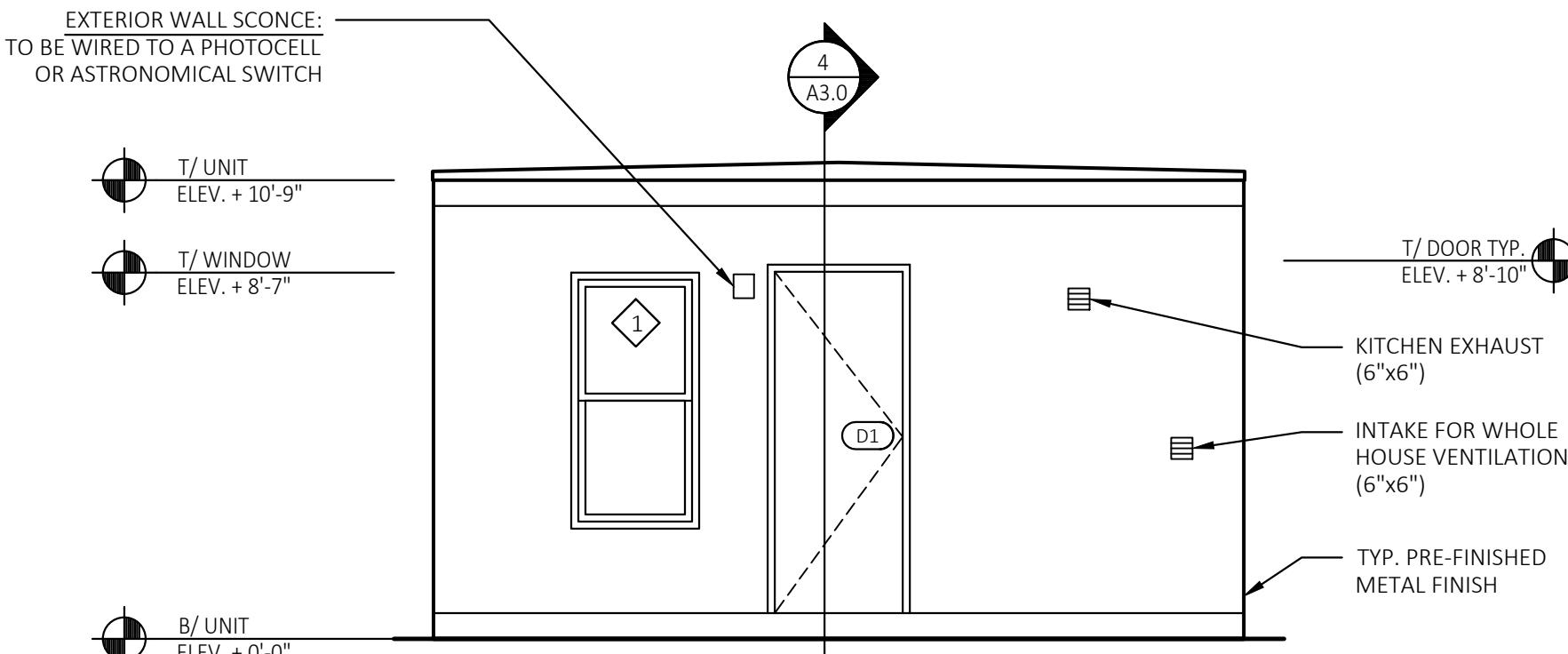
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EXTERIOR FINISHES:  
24 GAUGE METAL PANEL INSTALLED BY MANUFACTURER

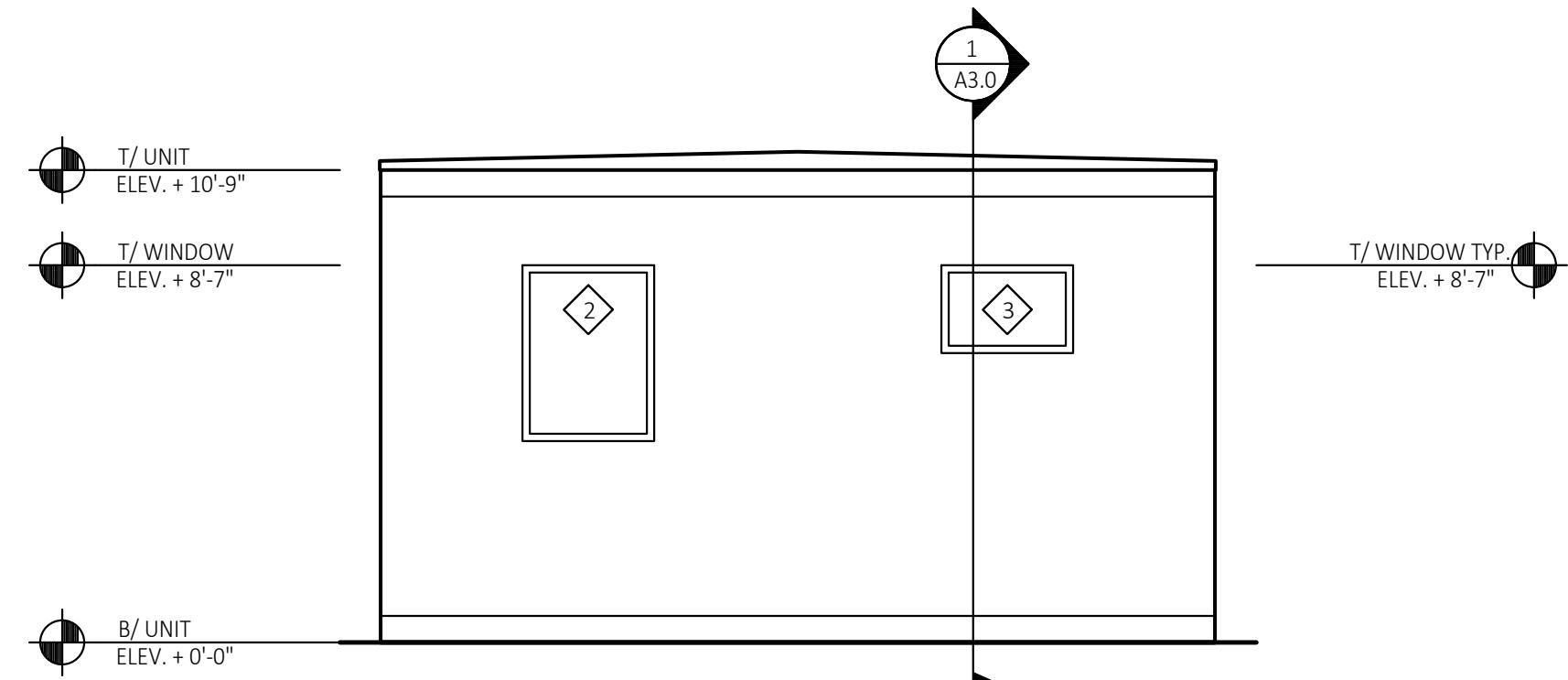
FOAM WEDGE ROOF:  
2-1/2" TH @ ROOF EDGES; 5" TH @ CENTER  
(1/4 : 12 SLOPE)



1  
A2.0 FRONT ELEVATION

OPENING PERCENTAGE = 20.56%

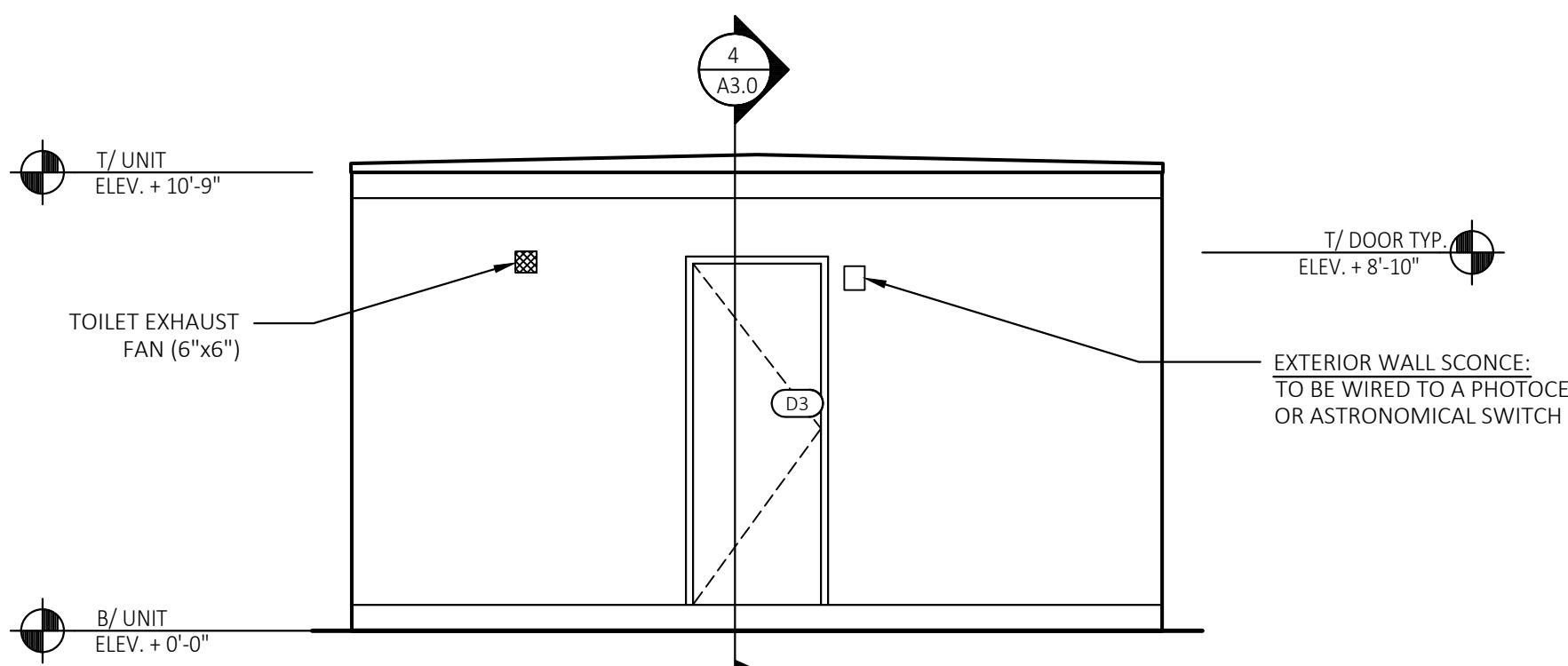
SCALE: 1/4" = 1'-0"



2  
A2.0 RIGHT ELEVATION

OPENING PERCENTAGE = 8.81%

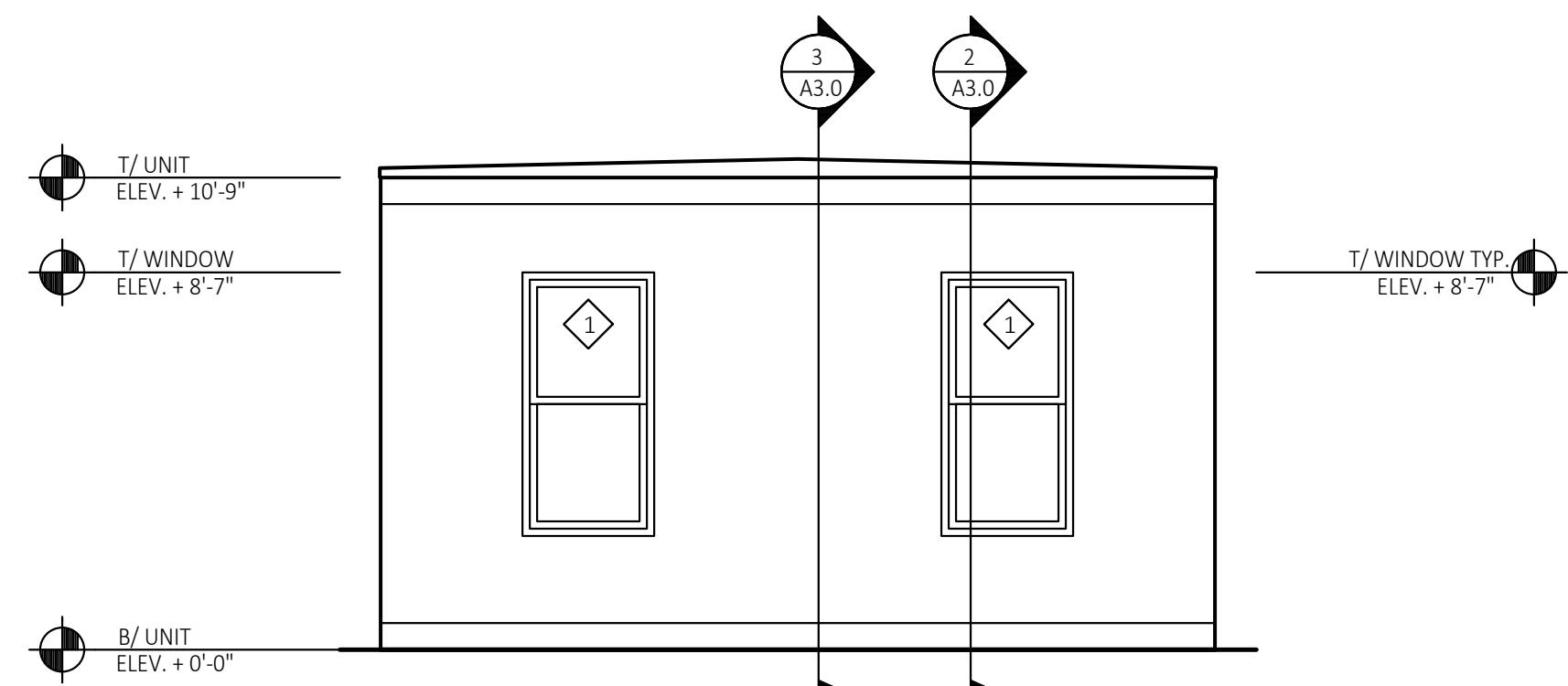
SCALE: 1/4" = 1'-0"



3  
A2.0 BACK ELEVATION

OPENING PERCENTAGE = 11.75%

SCALE: 1/4" = 1'-0"



4  
A2.0 LEFT ELEVATION

OPENING PERCENTAGE = 17.62%

SCALE: 1/4" = 1'-0"

**NOTE:**  
AIR EXHAUST AND INTAKE OPENINGS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR GRILLES HAVING AN OPENING SIZE OF NOT LESS THAN 1/4 INCH AND A MAXIMUM OPENING SIZE OF 1/2 INCH, IN ANY DIMENSION

#### MAXIMUM AREA OF EXT. WALL OPENINGS ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION

BASED OFF IRC TABLE R302.1(1) EXTERIOR WALLS

FIRE SEPARATION DISTANCE (FEET)	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA
0 TO LESS THAN 3	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
3 TO LESS THAN 5	UNPROTECTED, NONSPRINKLERED	NOT PERMITTED
5 TO LESS THAN 10	UNPROTECTED, NONSPRINKLERED	10%
10 TO LESS THAN 15	UNPROTECTED, NONSPRINKLERED	15%
15 TO LESS THAN 20	UNPROTECTED, NONSPRINKLERED	25%

DATE:	REV:	DESCRIPTION:

**BOXABL INC.**

5345 EAST NORTH BELT ROAD  
NORTH LAS VEGAS, NV 89115, USA  
+1(702) 500-9000 HELLO@BOXABL.COM

**MODEL: 2 DOOR CASITA**  
**BXB-00009**

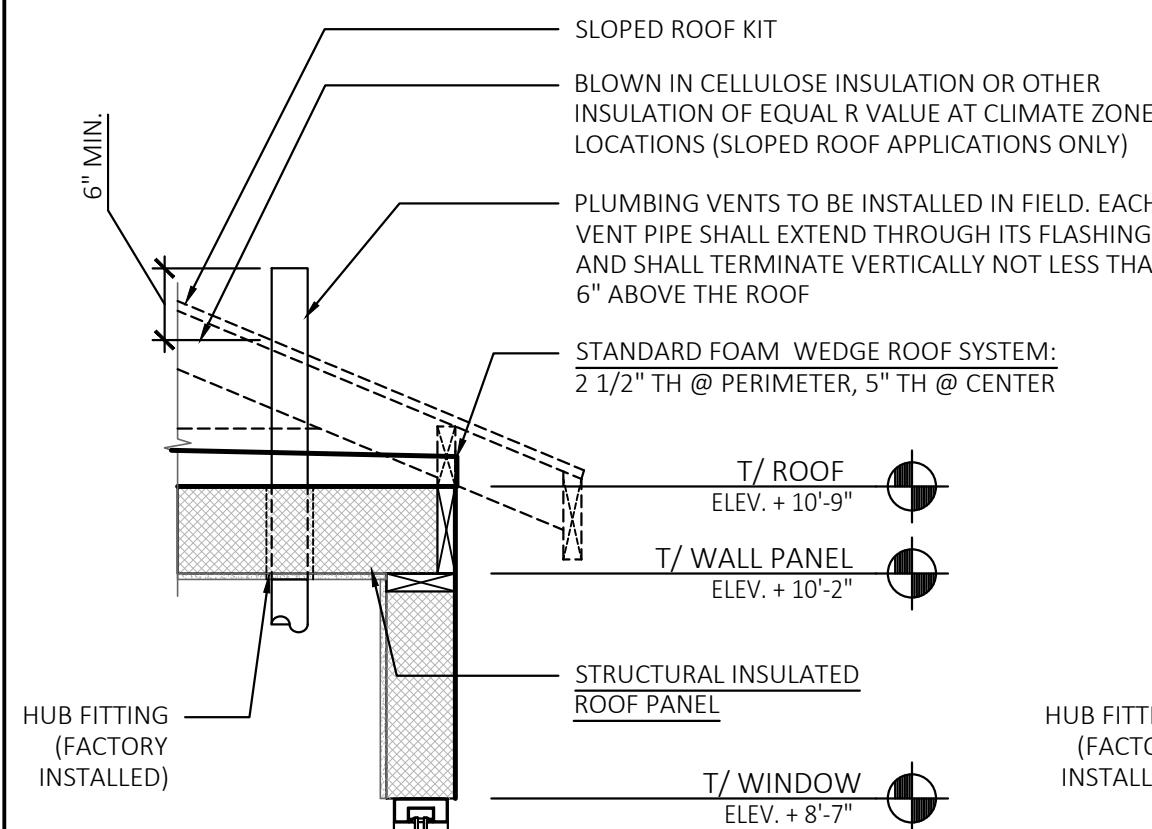
**SHEET: A2.0**

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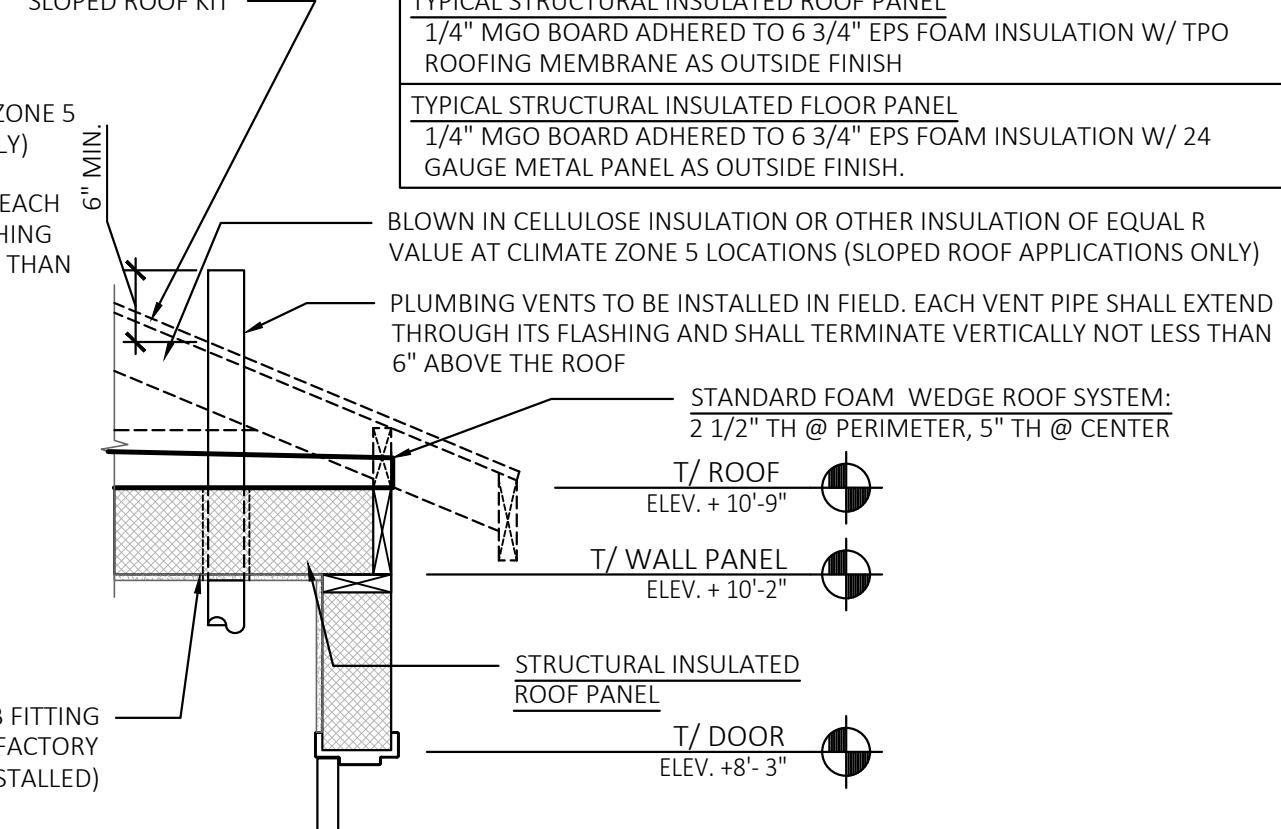
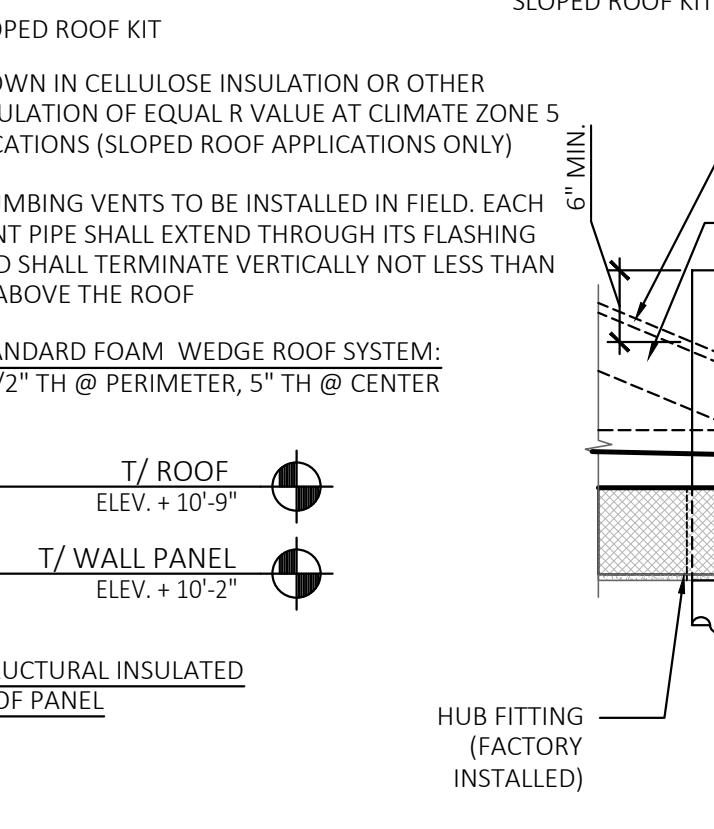
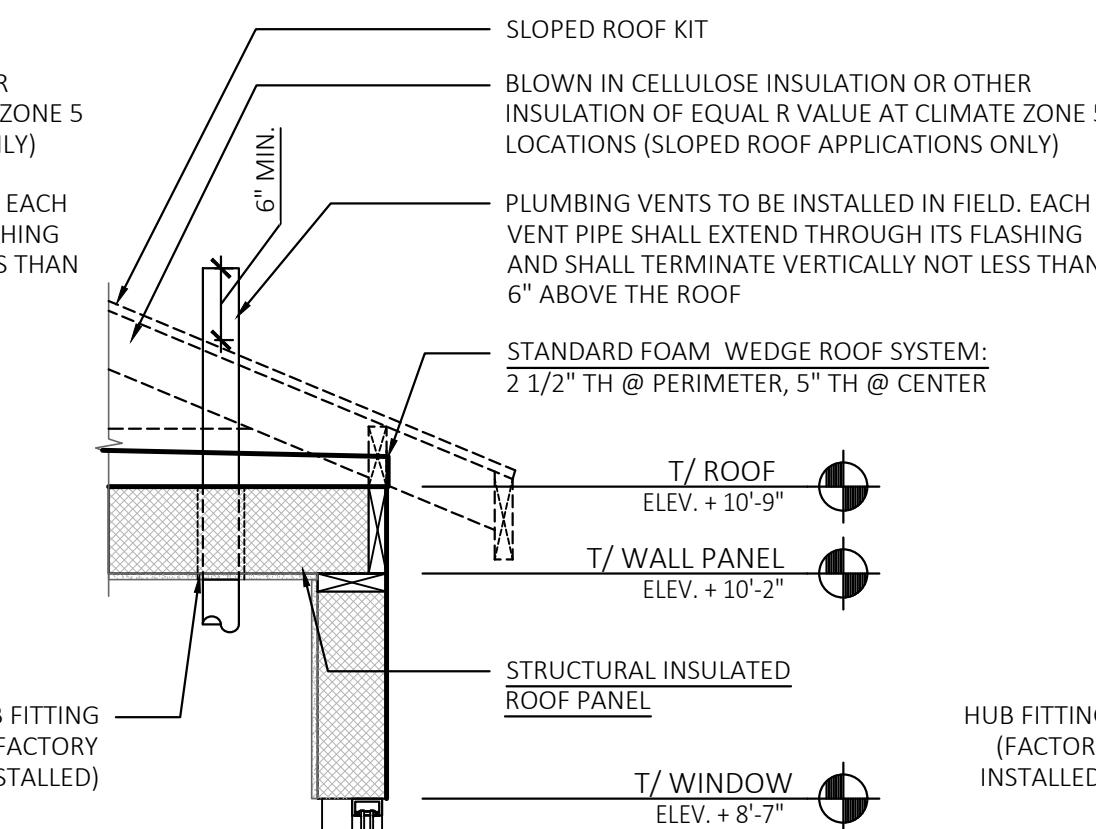


**TYPICAL ROOF COVERING (PITCHED ROOF):**

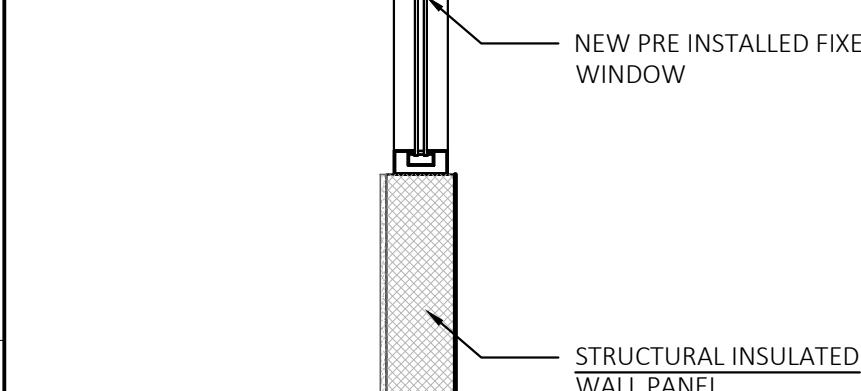
SLOPED ROOF TRUSS KIT & ROOF COVERING (ASPHALT SHINGLES, CLAY TILES, ETC.) TO BE PURCHASED SEPARATELY BY THE UNIT OWNER. ROOFS TO BE INSTALLED + INSPECTED ON SITE.

**TYPICAL ROOF COVERING (FLAT ROOF):**

GAF TPO FULLY ADHERED SINGLE PLY MEMBRANE OR APPROVED ADHERE EPDM ROOFING MEMBRANE WITH ALL REQUIRED FLASHINGS, AND ACCESSORIES AS NECESSARY FOR A COMPLETE AND WATERTIGHT INSTALLATION. BASE INSULATION: 2-1/2" TH @ ROOF EDGES, 5" TH @ CENTER (1/4: 12 SLOPE) (FOAM WEDGE ROOF). ROOFS TO BE INSTALLED + INSPECTED ON SITE.

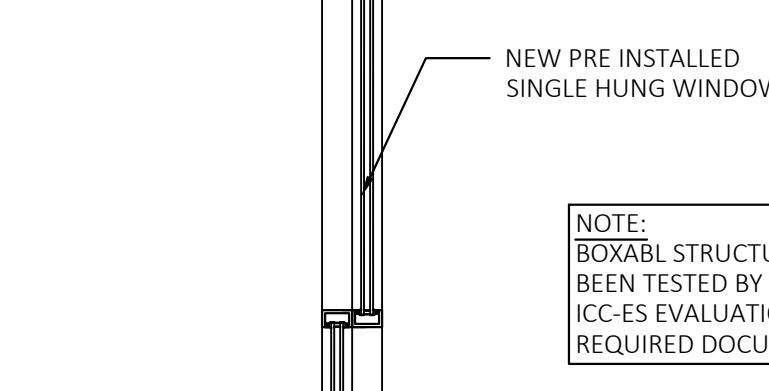


NEW PRE INSTALLED FIXED WINDOW



STRUCTURAL INSULATED WALL PANEL

NEW PRE INSTALLED SINGLE HUNG WINDOW



STRUCTURAL INSULATED WALL PANEL

NOTE:  
BOXABL STRUCTURAL INSULATING PANELS HAVE BEEN TESTED BY THE ICC EVALUATION SERVICE.  
ICC-ES EVALUATION REPORT ESR-4725 PROVIDES THE REQUIRED DOCUMENTATION FOR THESE PANELS

NOTE:  
• FOUNDATION, VENTING, AND ACCESS DESIGN BY OTHERS.  
• NO MEP PENETRATIONS THROUGH THE FLOOR PANELS.

STRUCTURAL INSULATED FLOOR PANEL

B/ WALL PANEL ELEV. +0'-7"

T/ CONC FDN. WALL ELEV. +0'-0"

4" X 12" CRAWL SPACE VENT (1 PER WALL)

FOUNDATION BY OTHERS

6" THICK GRAVEL BED

10 MIL VAPOR BARRIER BY OTHERS

6" CLEAR MIN.

6-3/4"

6" CLEAR MIN.

6-3/4"

6" CLEAR MIN.

PREMANUFACTURED STRUCTURAL INSULATED WALL PANEL

STRUCTURAL INSULATED FLOOR PANEL

B/ WALL PANEL ELEV. +0'-7"

T/ CONC FDN. WALL ELEV. +0'-0"

4" X 12" CRAWL SPACE VENT (1 PER WALL)

FOUNDATION BY OTHERS

6" THICK GRAVEL BED

10 MIL VAPOR BARRIER BY OTHERS

6" CLEAR MIN.

6-3/4"

6" CLEAR MIN.

6-3/4"

STRUCTURAL INSULATED FLOOR PANEL

B/ WALL PANEL ELEV. +0'-7"

T/ CONC FDN. WALL ELEV. +0'-0"

4" X 12" CRAWL SPACE VENT (1 PER WALL)

FOUNDATION BY OTHERS

6" THICK GRAVEL BED

10 MIL VAPOR BARRIER BY OTHERS

6" CLEAR MIN.

6-3/4"

6" CLEAR MIN.

STRUCTURAL INSULATED FLOOR PANEL

B/ WALL PANEL ELEV. +0'-7"

T/ CONC FDN. WALL ELEV. +0'-0"

4" X 12" CRAWL SPACE VENT (1 PER WALL)

FOUNDATION BY OTHERS

6" THICK GRAVEL BED

10 MIL VAPOR BARRIER BY OTHERS

6" CLEAR MIN.

6-3/4"

6" CLEAR MIN.

STRUCTURAL INSULATED FLOOR PANEL

B/ WALL PANEL ELEV. +0'-7"

T/ CONC FDN. WALL ELEV. +0'-0"

4" X 12" CRAWL SPACE VENT (1 PER WALL)

FOUNDATION BY OTHERS

6" THICK GRAVEL BED

10 MIL VAPOR BARRIER BY OTHERS

6" CLEAR MIN.

6-3/4"

6" CLEAR MIN.

STRUCTURAL INSULATED FLOOR PANEL

B/ WALL PANEL ELEV. +0'-7"

T/ CONC FDN. WALL ELEV. +0'-0"

4" X 12" CRAWL SPACE VENT (1 PER WALL)

FOUNDATION BY OTHERS

6" THICK GRAVEL BED

10 MIL VAPOR BARRIER BY OTHERS

6" CLEAR MIN.

6-3/4"

6" CLEAR MIN.

STRUCTURAL INSULATED FLOOR PANEL

B/ WALL PANEL ELEV. +0'-7"

T/ CONC FDN. WALL ELEV. +0'-0"

4" X 12" CRAWL SPACE VENT (1 PER WALL)

FOUNDATION BY OTHERS

6" THICK GRAVEL BED

10 MIL VAPOR BARRIER BY OTHERS

6" CLEAR MIN.

6-3/4"

6" CLEAR MIN.

STRUCTURAL INSULATED FLOOR PANEL

B/ WALL PANEL ELEV. +0'-7"

T/ CONC FDN. WALL ELEV. +0'-0"

4" X 12" CRAWL SPACE VENT (1 PER WALL)

FOUNDATION BY OTHERS

6" THICK GRAVEL BED

10 MIL VAPOR BARRIER BY OTHERS

6" CLEAR MIN.

6-3/4"

6" CLEAR MIN.

STRUCTURAL INSULATED FLOOR PANEL

B/ WALL PANEL ELEV. +0'-7"

T/ CONC FDN. WALL ELEV. +0'-0"

4" X 12" CRAWL SPACE VENT (1 PER WALL)

FOUNDATION BY OTHERS

6" THICK GRAVEL BED

10 MIL VAPOR BARRIER BY OTHERS

6" CLEAR MIN.

6-3/4"

6" CLEAR MIN.

STRUCTURAL INSULATED FLOOR PANEL

B/ WALL PANEL ELEV. +0'-7"

T/ CONC FDN. WALL ELEV. +0'-0"

4" X 12" CRAWL SPACE VENT (1 PER WALL)

FOUNDATION BY OTHERS

6" THICK GRAVEL BED

10 MIL VAPOR BARRIER BY OTHERS

6" CLEAR MIN.

6-3/4"

6" CLEAR MIN.

STRUCTURAL INSULATED FLOOR PANEL

B/ WALL PANEL ELEV. +0'-7"

T/ CONC FDN. WALL ELEV. +0'-0"

4" X 12" CRAWL SPACE VENT (1 PER WALL)

FOUNDATION BY OTHERS

6" THICK GRAVEL BED

10 MIL VAPOR BARRIER BY OTHERS

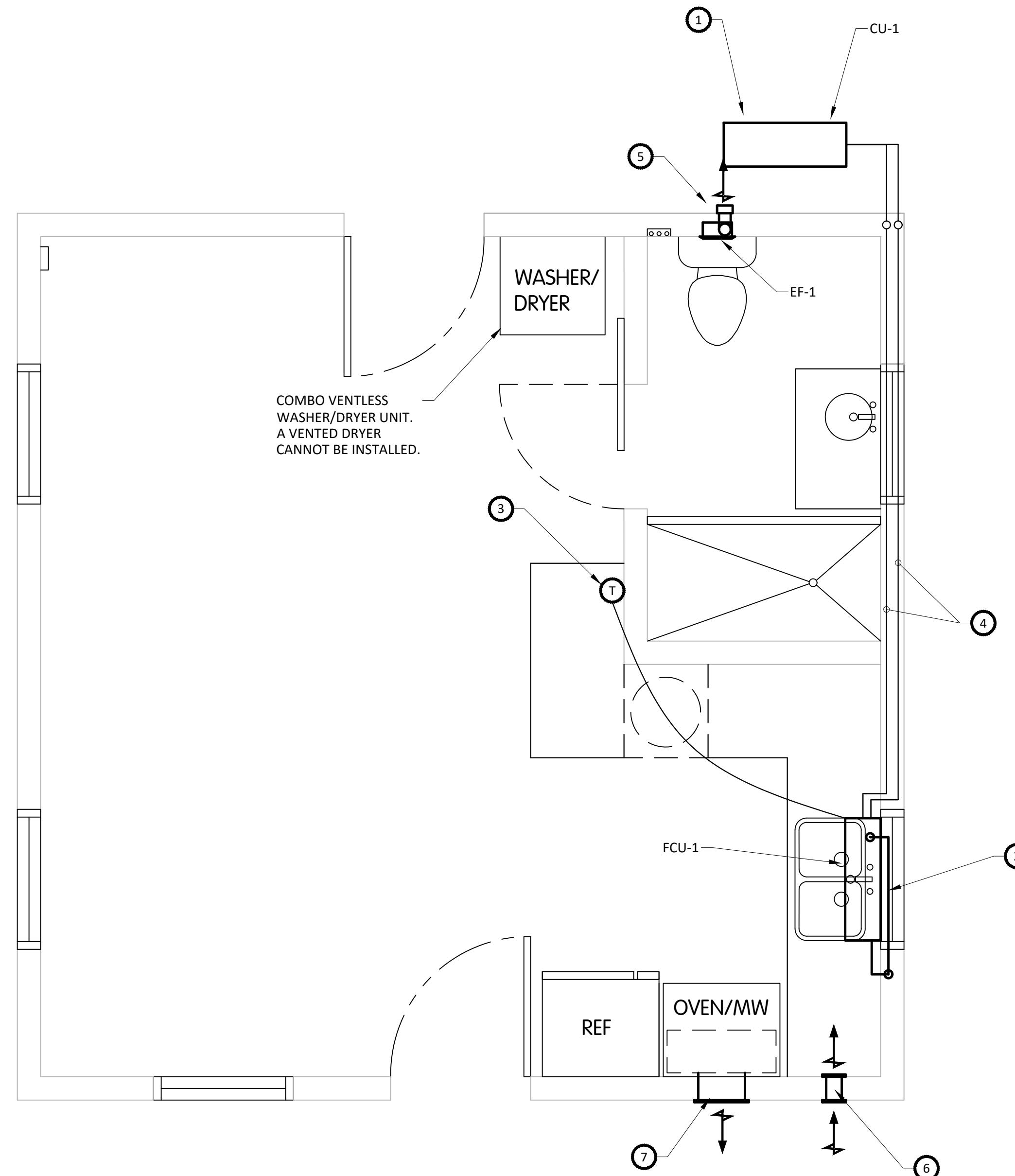
6" CLEAR MIN.

6-3/4"

6" CLEAR MIN.

STRUCTURAL INSULATED FLOOR PANEL

B/ WALL PANEL ELEV. +0'-7"



1 MECHANICAL PLAN  
1/2" = 1'-0"

WHOLE HOUSE VENTILATION SYSTEM REQUIREMENTS PER 2018 INTERNATIONAL RESIDENTIAL CODE (IRC):  
A WHOLE HOUSE VENTILATION SYSTEM IS TO BE PROVIDED PER THE 2018 INTERNATIONAL RESIDENTIAL CODE SECTION R303.4.  
PER SECTION R303.4 - MECHANICAL VENTILATION, A WHOLE HOUSE MECHANICAL VENTILATION SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH SECTION M1505.4.  
PER SECTION R1505.4, OUTDOOR AIR TO BE PROVIDED AT A CONTINUOUS RATE BASE ON TABLE M1507.3.3(1), FOR A DWELLING UNIT <1,500 SQUARE FEET WITH 0-1 BEDROOMS AN AIRFLOW OF 30 CFM IS REQUIRED.  
PER THE EXCEPTION IN SECTION M1505.4.3, THE SYSTEM IS ALLOWED TO OPERATE INTERMITTENTLY FOR NOT LESS THAN 25% PER A 4 HOUR SEGMENT.  
INTERMITTENT WHOLE HOUSE VENT. RATE FACTORS  
FAN CFM/O.A. REQUIREMENT = 70/30 = 2.33.  
PER TABLE M1505.4.3(1), THE WHOLE HOUSE VENTILATION SYSTEM MUST OPERATE 45% OF THE TIME FOR EACH 4 HOUR SEGMENT.

PLAN NOTES	
1	NEW CONDENSING UNIT, CU-1. PROVIDE CONCRETE PAD TO HAVE THE CONDENSING UNIT ON A LEVEL SURFACE. COORDINATE EXACT LOCATION WITH ARCHITECT AND BUILDING OWNER.
2	ROUTE CONDENSATE DRAIN FROM FCU-1 THROUGH WALL AND DOWN BELOW WINDOW AND TIE INTO DRAIN BELOW KITCHEN SINK.
3	PROGRAMMABLE THERMOSTAT (PROVIDED WITH UNIT). MOUNTED 48" MAXIMUM ABOVE FLOOR.
4	REFRIGERANT PIPING ROUTED IN WALL, SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SIZING.
5	PROVIDE HOODED WALL CAP.
6	INTAKE FOR WHOLE HOUSE VENTILATION SYSTEM. VENT-US MODEL PS-101. INTAKE TO BE LOCATED UNDER UPPER CABINETS, MINIMUM 3' BELOW EXHAUST DISCHARGE VENT FROM MICROWAVE.
7	EXHAUST DISCHARGE FROM EXHAUST FAN THAT IS INTEGRAL TO THE MICROWAVE. EXHAUST CAPACITY SHALL BE 300 CFM AND BE EXHAUSTED DIRECTLY TO THE OUTDOORS. EXHAUST FAN TO HAVE MANUAL SWITCH FOR CONTROL.

## MECHANICAL PLAN

DATE:	REV:	DESCRIPTION:

BOXABL INC.

5345 EAST NORTH BELT ROAD  
NORTH LAS VEGAS, NV 89115, USA

+1(702) 500-9000 HELLO@BOXABL.COM

MODEL: 2 DOOR CASITA  
BXB-000009

SHEET: M2.0

PROPRIETARY AND CONFIDENTIAL  
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### FAN COIL UNIT SCHEDULE

DESIGN'N.	MFG'R.	MODEL NO.	AIR QUANTITY (CFM)	COOLING				HEATING			ELECTRICAL			COMPRESSOR	TYPE OF MOUNTING	HSFP	SEER	REMARKS	
				E.A.T. DB °F/WB °F	L.A.T. DB °F/WB °F	TOTAL CAPACITY (BTU/HR)	REFRIGERANT	REFRIGERANT CHARGE	E.A.T. (°F)	L.A.T. (°F)	TOTAL CAPACITY @ 47°F	VOLTAGE	PHASE (Ø)	MCA	MOCP				
CU-1	LG	LSU120HFV3									230	1	10	15	ROTORY INVERTER	ON GRADE			
FCU-1	LG	LSU120HFV3	459	75.0/62.3	55.0/53.4	12,000	R410A	1 LB 12 OZ	60.0	88.2	12,200					WALL HUNG	8.50	17.00	

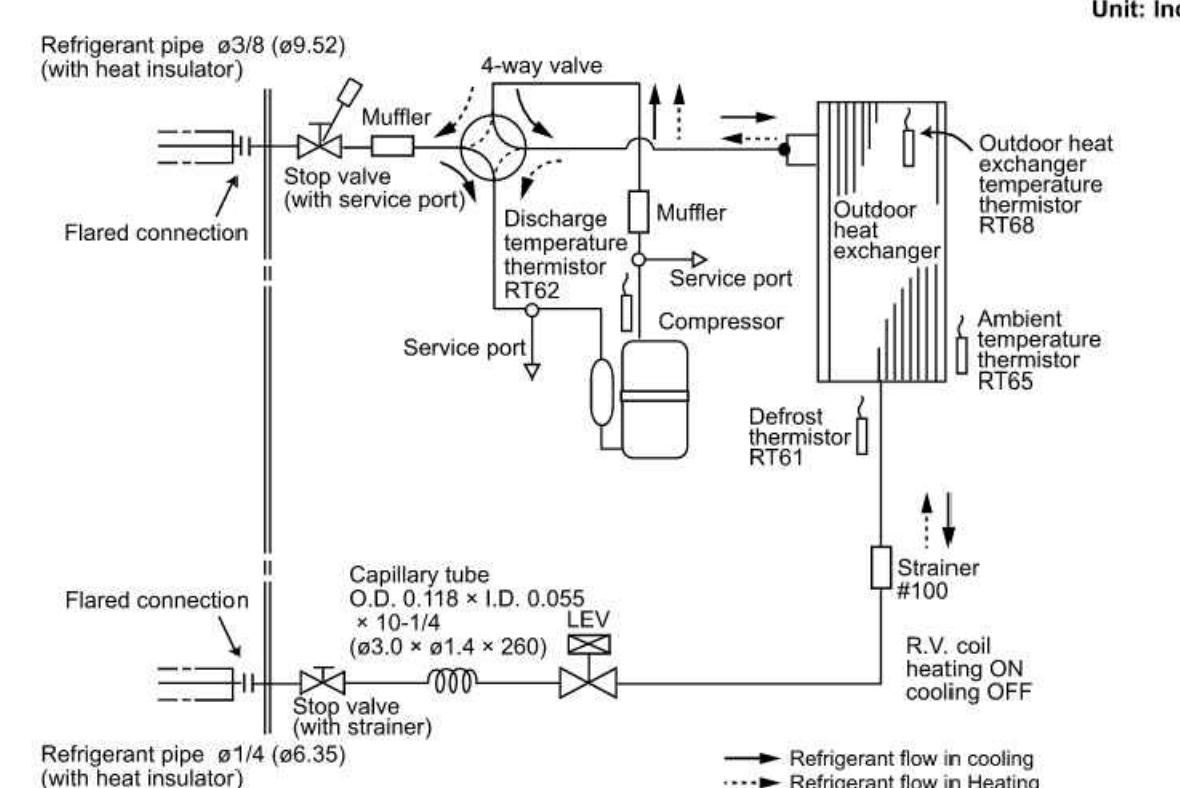
NOTE: UNITS TO BE MANUFACTURED BY MITSUBISHI, LG OR AN APPROVED EQUIVALENT UNIT.

### EXHAUST FAN SCHEDULE

DESIGN	SERVICE	MFG'R	MODEL NO.	TYPE	CFM	STATIC PRESSURE ("W.C.)	DRIVE	ELECTRICAL			BACKDRAFT DAMPER	OPER. WEIGHT (LBS.)	EFFICACY RATING CFM/WATT	REMARKS
								H.P. (WATTS)	PHASE (Ø)	VOLTAGE				
EF-1	RESTROOM	ADDVENT	ABF 70	WALL	70	0.250	DIRECT	(21.0)	1	115	GRAVITY	8	3.33	
		DELTA	SLM 70	WALL	54	0.250	DIRECT	(11.6)	1	115	GRAVITY	8	4.7	

NOTE: UNITS TO BE MANUFACTURED BY ADDVENT, DELTA, OR AN APPROVED EQUIVALENT UNIT.

### MUZ-WR09NA MUZ-WR12NA



### REFRIGERATION PIPING SYSTEM SCHEMATIC DETAIL

NOT TO SCALE

#### MECHANICAL DETAILS

DATE:	REV:	DESCRIPTION:

**BOXABL INC.**

5345 EAST NORTH BELT ROAD  
NORTH LAS VEGAS, NV 89115, USA

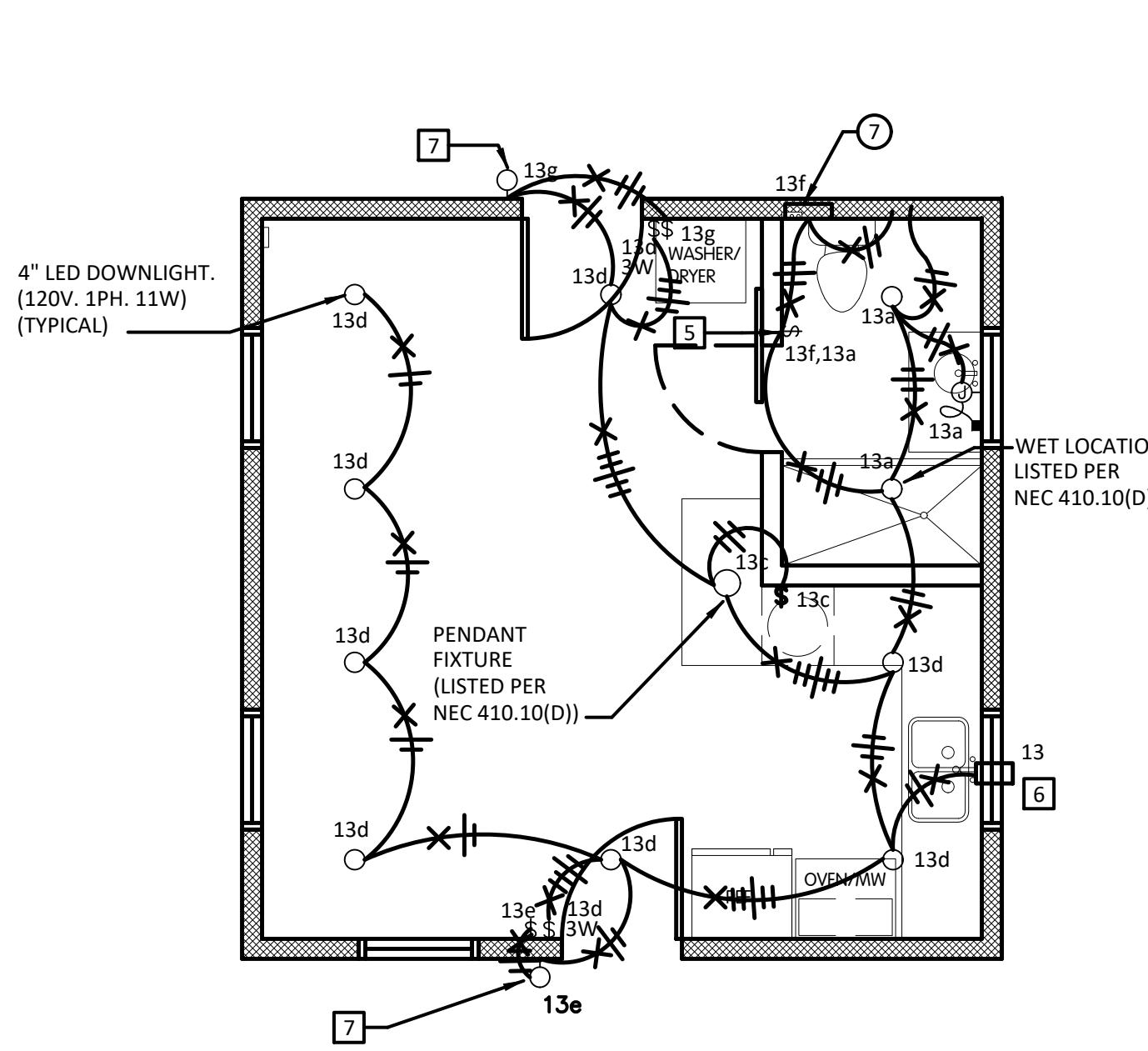
+1(702) 500-9000 HELLO@BOXABL.COM

**MODEL: 2 DOOR CASITA**  
**BXB-000009**

**SHEET: M3.0**

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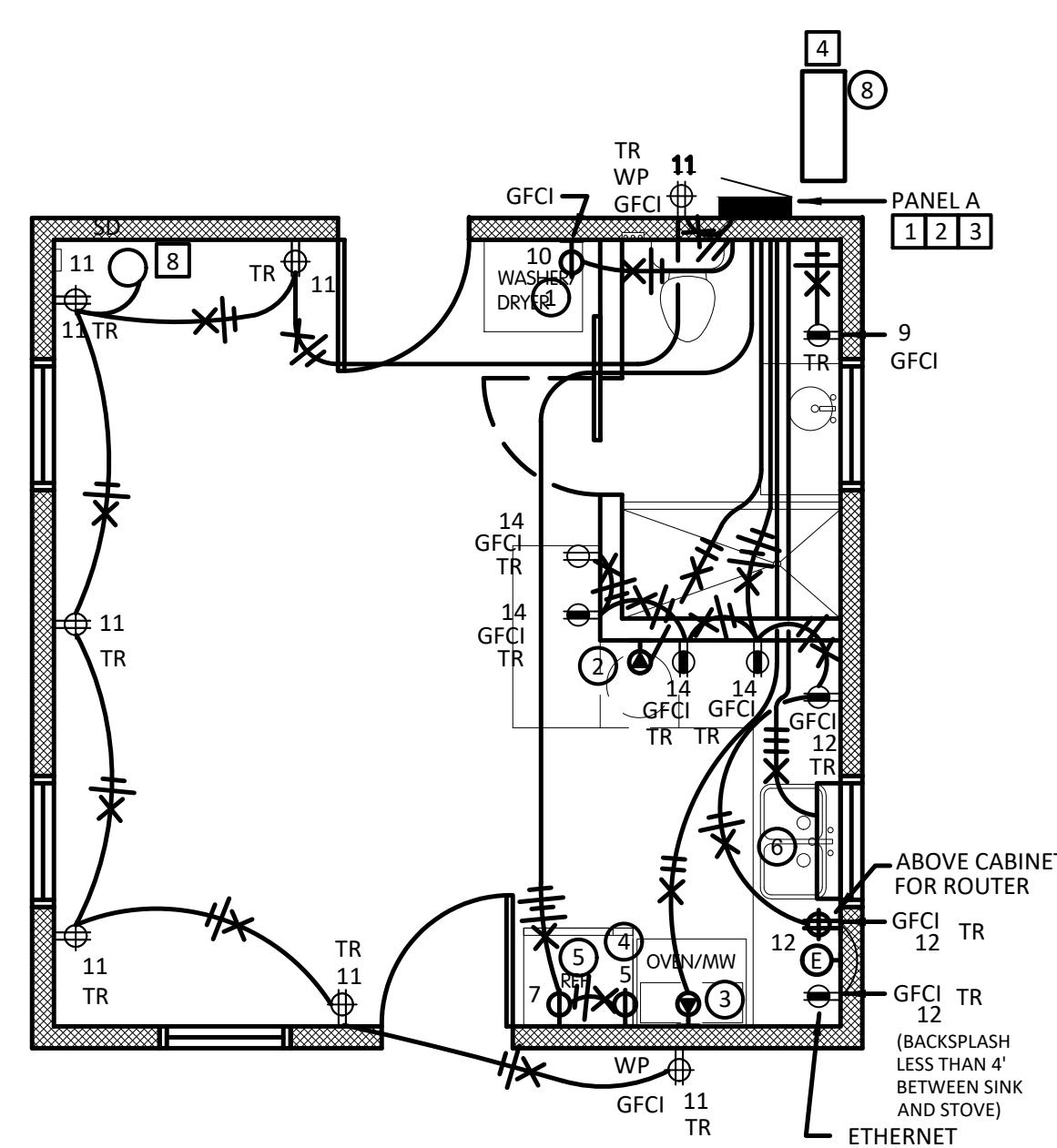


# LIGHTING PLAN

---

**SCALE: 1/4"=1'-0"**

0'                  4'                  8'                  12'                  16'



# POWER PLAN

---

**SCALE: 1/4"=1'-0"**

0'                  4'                  8'                  12'                  16'

- POWER NOTE

- 1 LOAD CENTER FULLY ASSEMBLED AND INSTALLED IN FACTORY WITH EMERGENCY SERVICE/ MAIN SERVICE DISCONNECT AS PART OF LOAD CENTER.
  - 2 ELECTRICIAN TO PROVIDE ELECTRICAL FEEDER/ELECTRICAL SERVICE FROM SITE TO LOAD CENTER.
  - 3 ELECTRICIAN TO PROVIDE SERVICE GROUND/BUILDING GROUND PER NEC REQUIREMENTS.
  - 4 ELECTRICIAN TO WIRE OUTDOOR CONDENSER UNIT EXTEND WIRING AND INTERCONNECT WIRING FROM INDOOR FAN COIL PER MANUFACTURERS DIRECTIONS. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR AS TO NOT IMPEDE CODE REQUIRED CLEARANCE FOR ELECTRICAL PANELS/SERVICE DISCONNECTS. PROVIDE GFCI PROTECTION PER 210.8 (F).
  - 5 PROVIDE COMBO BATH FAN/LIGHT SWITCH WITH VENTILATION CONTROL & DELAY TIMER. (LEGRAND RADIANT 4 BUTTON DIGITAL TIMER # RT2BKCCV4 OR EQUAL)
  - 6 WHOLE HOUSE VENTILATION SYSTEM FAN 120V., 1PH., 7W. WIRE AHEAD OF ALL LOCAL SWITCHING.
  - 7 OUTDOOR WALL LAMP WITH INTEGRAL PHOTOCELL OR WITH ASTRONOMICAL TIMECLOCK (FURNISHED WITH UNIT INSTALLED ON SITE)
  - 8 COMBINATION SMOKE/FIRE/CARBON MONOXIDE ALARM WITH BATTERY BACKUP. UNIVERSAL SECURITY INSTRUMENTS # MIC1509S HARDWIRED 3 IN 1 SMART ALARM WITH 10 YEAR SEALED BATTERY OR EQUAL. DETECTOR SHALL BE LOCATED MINIMUM OF 20 FEET FROM COOKING APPLIANCE. SHIPPED LOOSE, INSTALLED AND TESTED ONSITE.

CIRCUIT PROTECTION NOTES

- ARC FAULT CIRCUIT INTERRUPTER PROTECTION SHALL BE PROVIDED FOR ALL 15 AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS AND DEVICES IN ACCORDANCE WITH NEC 210.12(A).
  - GROUND FAULT CIRCUIT INTERRUPTER PROTECTION SHALL BE PROVIDED FOR ALL 15A AND 20A RECEPTACLES AND EQUIPMENT IN ACCORDANCE WITH NEC 210.8.
  - ALL RECEPTACLES SHOWN WITH TR SHALL BE TAMPER RESISTANT PER NEC 406.12.

EQUIPMENT SCHEDULE											
# MARK	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	AMPS	RECEPTACLE TYPE	CIRCUIT NUMBER	CIRCUIT DATA			HEIGHT	
							CONDUCTORS				
							QTY.	SIZE	EQ. GND.		
1	WASHER DRYER	120	1	10.0	5-20R	A-10	2	#12	#12	18" A.F.F.	
2	WATER HEATER	240	1	18.75	6-30R	A-(6,8)	2	# 10	#10	18" A.F.F.	
3	RANGE	240	1	40.0	14-50R*	A-(2,4)	2	#6	#10	18" A.F.F.	
4	REFRIGERATOR	120	1	12	5-20R	A-5	2	#12	#12	18" A.F.F.	
5	MICROWAVE	120	1	12	5-20R	A-7	2	#12	#12	84" A.F.F.	
6	FAN COIL UNIT FCU-1	240	1	1.0	-	WIRE TO CU-1	3	#14	#14	-	
7	EXHAUST FAN EF-1	120	1	11 WATTS	-	A-13f	2	#12	#12	-	
8	OUTDOOR CONDENSER CU-1	240	1	15.0	-	A-(15,17)	2	#10	#10	-	

\*14-50R IS A THREE PHASE RECEPTACLE ONLY TWO PHASES USED. COORDINATE PHASING

<b>PANEL DATA SCHEDULE</b>		<b>PANEL NAME:</b> <u>A</u>		<b>DEMAND LOAD</b>	<b>FLUSH SURFACE</b>				
<b>LOCATION</b>	OUTDOOR			0.19	KVA				
<b>SERVICE</b>	120/240V.,1PH.,3W.	<b>CONNECTED LOAD</b>		5.63	KVA				
<b>MAIN BREAKER</b>	100A-2P MINIMUM	<b>PHASE A</b>	12.94	KVA	6.90	KVA			
<b>MAIN LUGS ONLY</b>		<b>PHASE B</b>	12.45	KVA	0.00	KVA			
<b>NEUTRAL BUS</b>	100A MINIMUM	<b>TOTAL</b>		20.82	KVA	0.00	KVA		
<b>GROUND BUS</b>	YES	<b>RMS SYM AMPS</b>	25.39	KVA	8.10	KVA			
<b>SHORT CIRCUIT RATING</b>	10,000	<b>AMPS</b>	106	AMPS	0.00	KVA			
NOTES: NEMA 3R - SERVICE ENTRANCE RATED - MINIMUM OF 3 # 2 AWG SERVICE						<b>S &amp; X: SPARE &amp; SPACE</b>			
* DENOTES LOCK-OUT CLIP: ** DENOTES GFI BREAKER: *** DENOTES VIA TIMECLOCK: **** DENOTES VIA CONTACTOR									
<b>CIRCUIT USE</b>	<b>CONNECTED LOAD</b>		<b>CCT. NO.</b>	<b>CIRCUIT BREAKER</b>	<b>CIRCUIT BREAKER</b>	<b>CCT. NO.</b>	<b>CONNECTED LOAD</b>		<b>CIRCUIT USE</b>
	A	B					A	B	
R: INTEGRAL WHOLE BUILDING	0	X	1	20A-2P	50A-2P	2	4,800	X	E: RANGE
R: SURGE PROTECTION DEVICE	X	0	3	SPD		4	X	4,800	E:
R: REFRIGERATOR	1,440	X	5	20A-1P AFCI	30A-2P	6	2,250	X	M: WATER HEATER
R: MICROWAVE	X	1,440	7	20A-1P AFCI		8	X	2,250	M:
R: BATHROOM RECEPTACLE	360	X	9	20A-1P AFCI	20A-1P AFCI	10	1,200	X	E: WASHER/DRYER
R: LIVING ROOM/EXTERIOR RECEPTS.	X	1,260	11	20A-1P AFCI	20A-1P AFCI	12	X	1,500	R: ROUTER/KITCHEN SMALL APPL.
L: BATH/KITCHEN/LIVING ROOM LTS	192	X	13	15A-1P AFCI	20A-1P AFCI	14	1,500	X	R: DINING/KITCHEN SMALL APPL.
M: CU-1/FCU-1	X	1,200	15	30A-2P	BLANKSPACE	16	0	X	X: BLANKSPACE
M:	1,200	X	17		BLANKSPACE	18	0	X	X: BLANKSPACE
X: BLANKSPACE	X	0	19	BLANKSPACE	BLANKSPACE	20	0	X	X: BLANKSPACE
<b>SUB TOTAL</b>	3,192	3,900					9,750	8,550	<b>SUB TOTAL</b>

# BOXABL INC.

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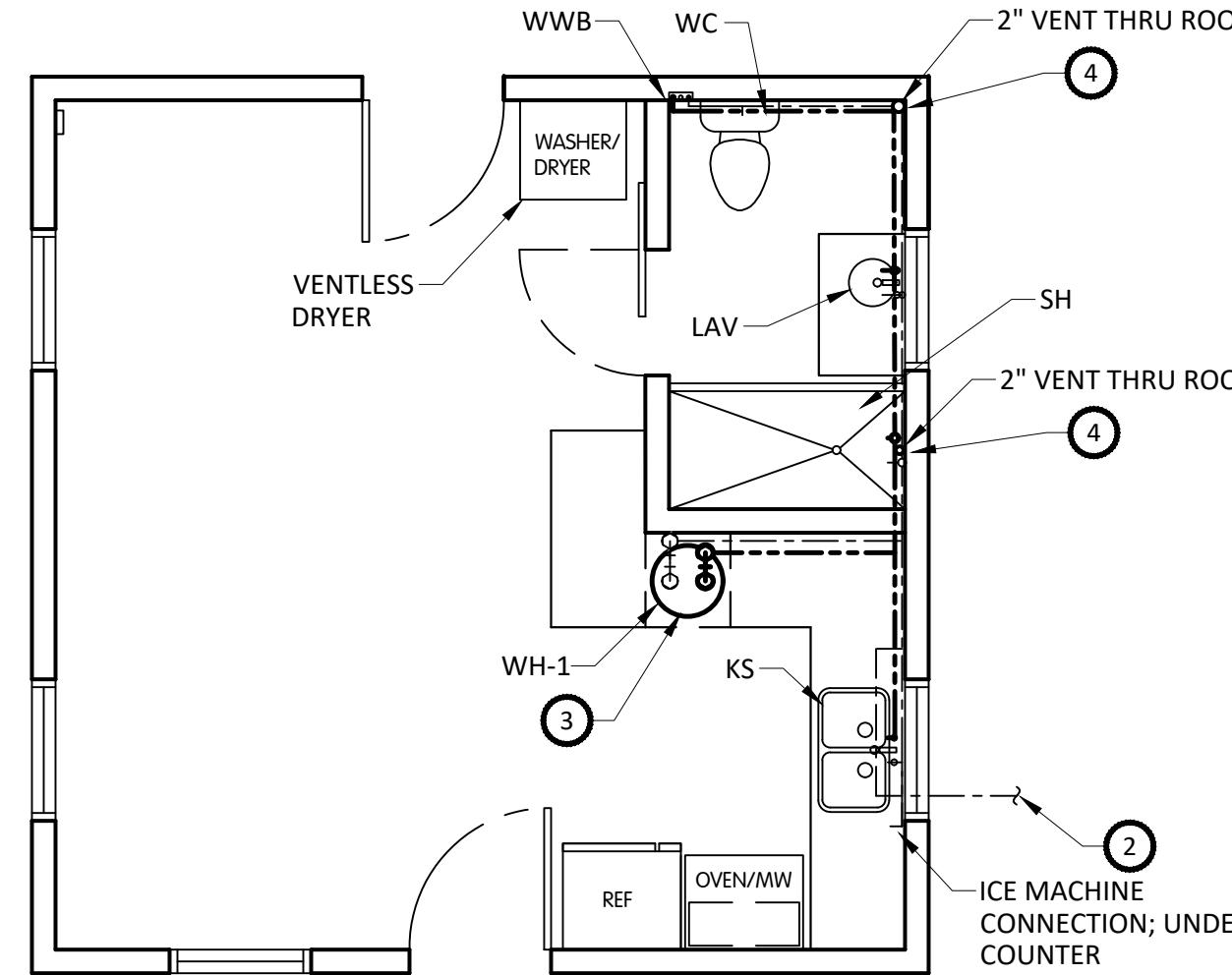
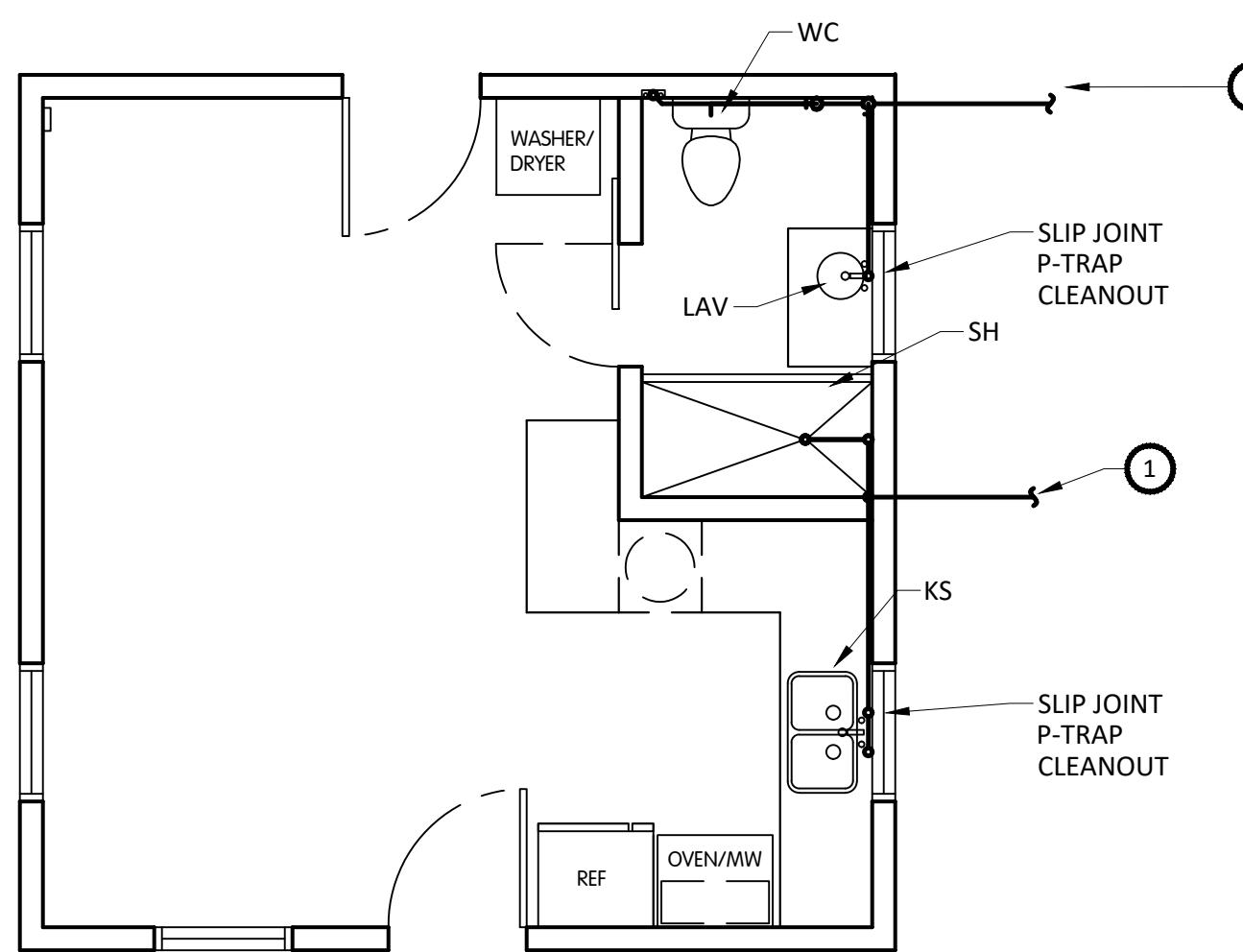
**MODEL:** 2 DOOR CASITA  
BXB-000009

SHEET: E2.0

**PROPRIETARY AND CONFIDENTIAL**

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# PLAN NOTES

(1)	PROVIDE 2" & 3" SANITARY PIPING TO THE NEW BOXABL HOUSE. COORDINATE WITH CIVIL DRAWINGS THE EXACT LOCATION OF THE NEW SANITARY PIPING.
(2)	PROVIDE 3/4" DOMESTIC COLD WATER TO NEW BOXABL HOUSE. COORDINATE WITH CIVIL DRAWINGS THE EXACT LOCATION OF THE NEW DOMESTIC COLD WATER PIPING.
(3)	ACCESS TO THE TANK WATER HEATER IS THRU A REMOVABLE PANEL IN THE CABINET.
(4)	2" VENT THRU ROOF, SEE PIPING ISOMETRICS FOR ALL VENT PIPING. 2" COUPLING HUB AT EXTERIOR ROOF PANEL FOR ROOF VENT CONNECTION ON SITE. VENT SHALL BE 10' ABOVE BOTTOM OF FLOOR OF UNIT.
(5)	WHOLE HOUSE WATER HAMMER ARRESTOR MIFAB MODEL CL-A-NPB. WATER HAMMER ARRESTOR TO BE MAUFACUTURED BY MIFAB OR AN APPROVED EQUIVALENT.

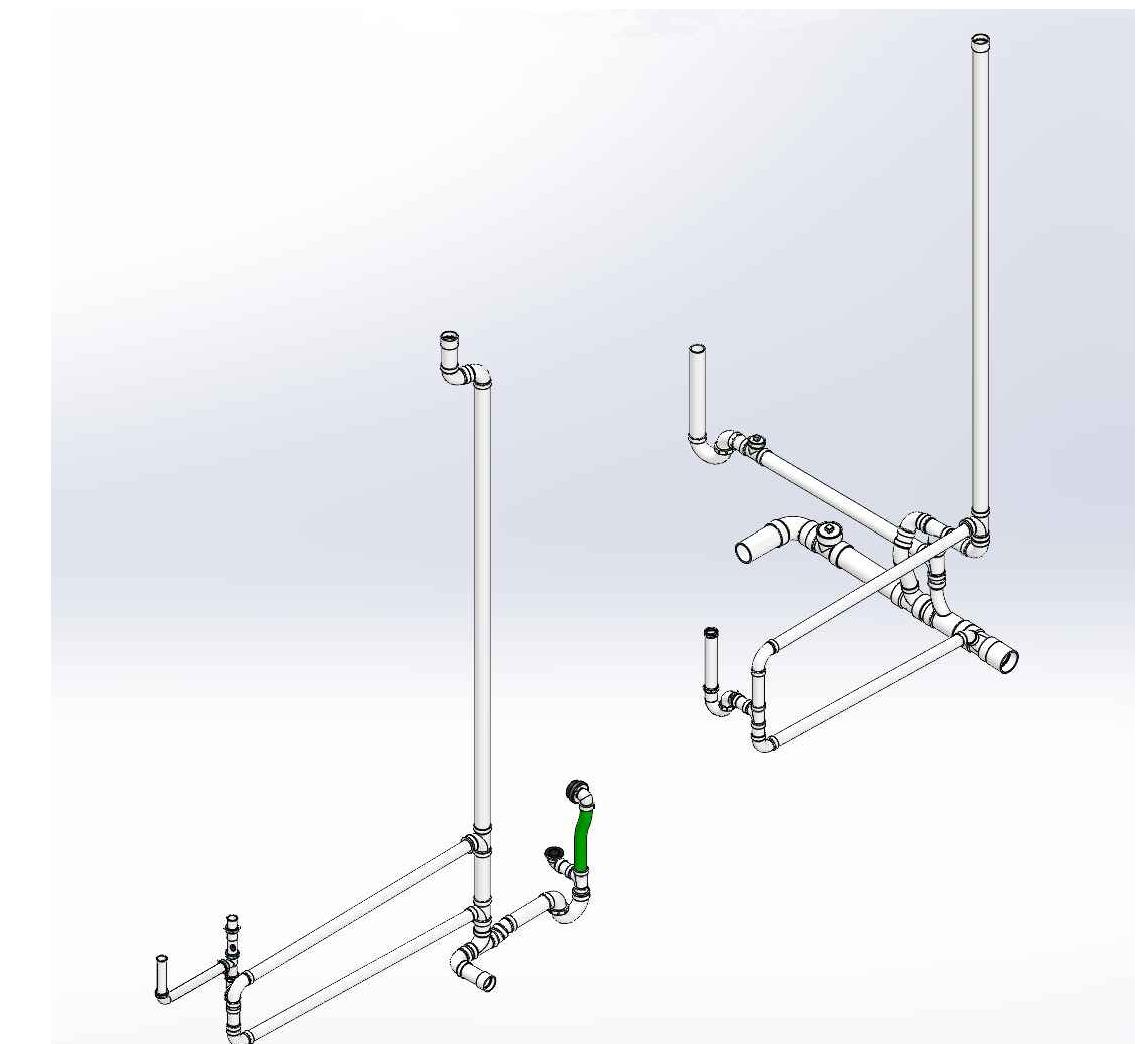
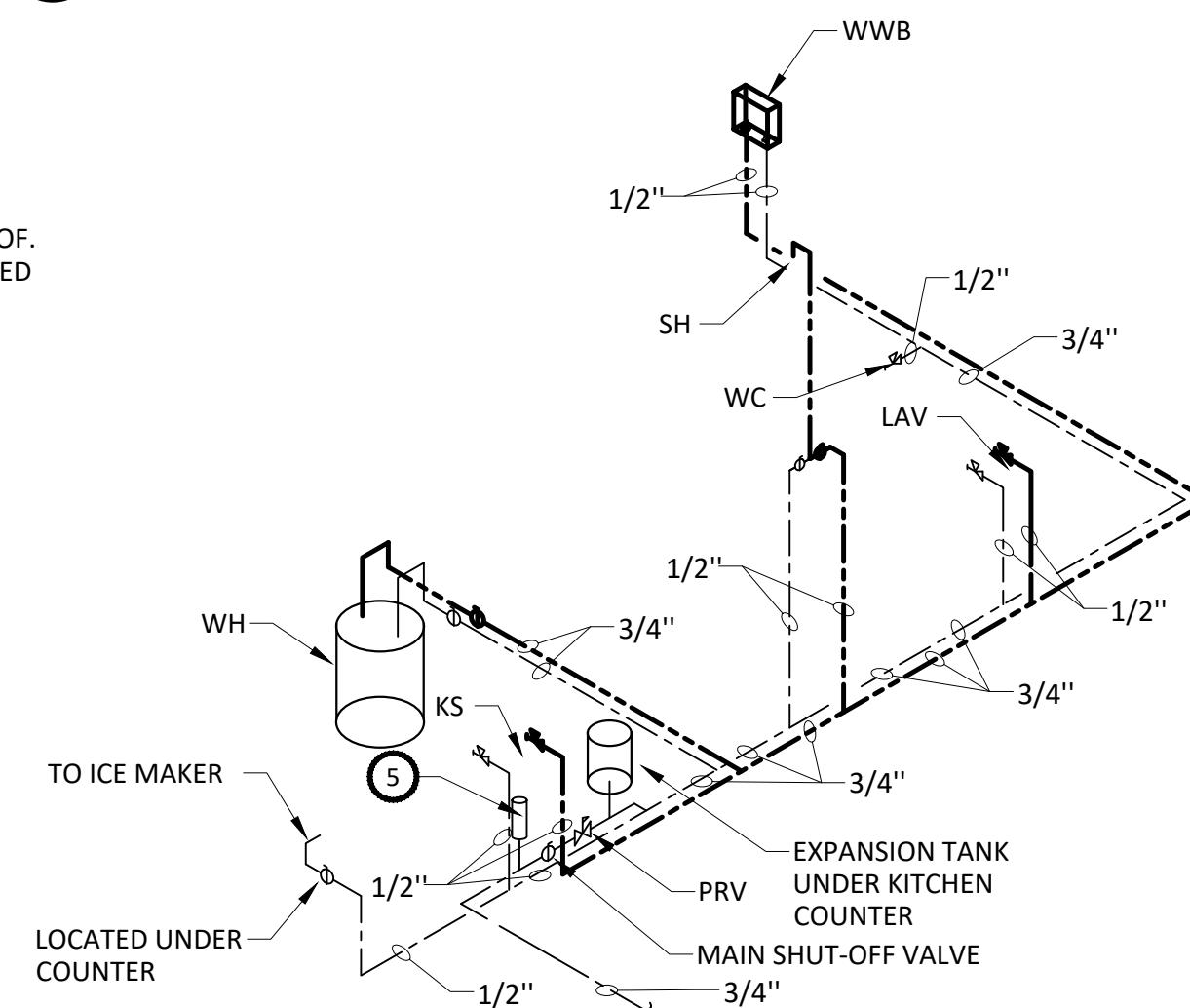
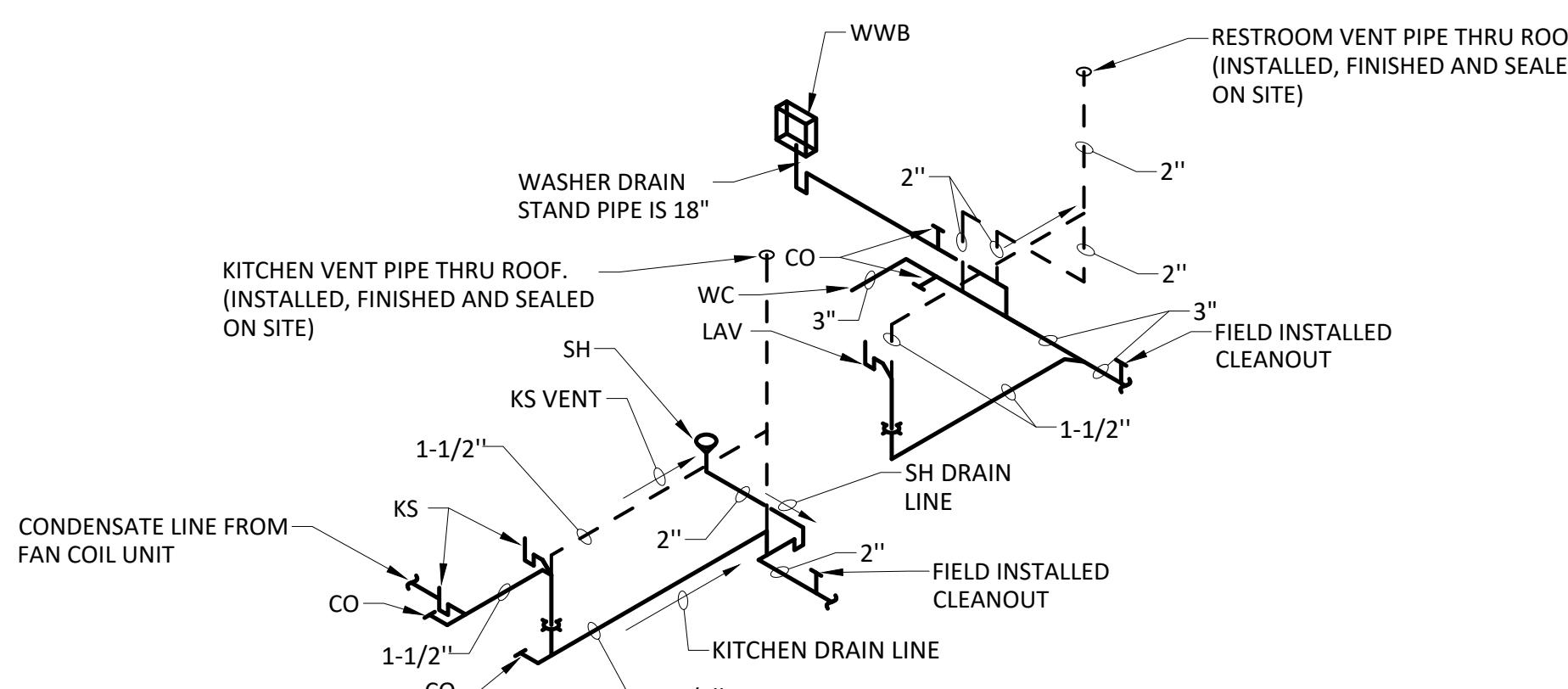
NO PLUMBING PIPES/LINES SHALL RUN  
WITHIN THE WALL/FLOOR/ROOF  
PANELS

# PLUMBING SANITARY PLAN

1  1/4" = 1'-0"

## PLUMBING DOMESTIC WATER PLAN

2  $\frac{1}{4}$ " = 1'-0"



# **3** PLUMBING SANITARY ISOMETRIC

# 4 PLUMBING DOMESTIC WATER ISOMETRIC

NOT TO SCALE

## PIPING DIAGRAMS

---

NOT TO SCALE

DATE:	REV:	DESCRIPTION:

# BOXABL INC.

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NORTH LAS VEGAS, NV 89115, USA

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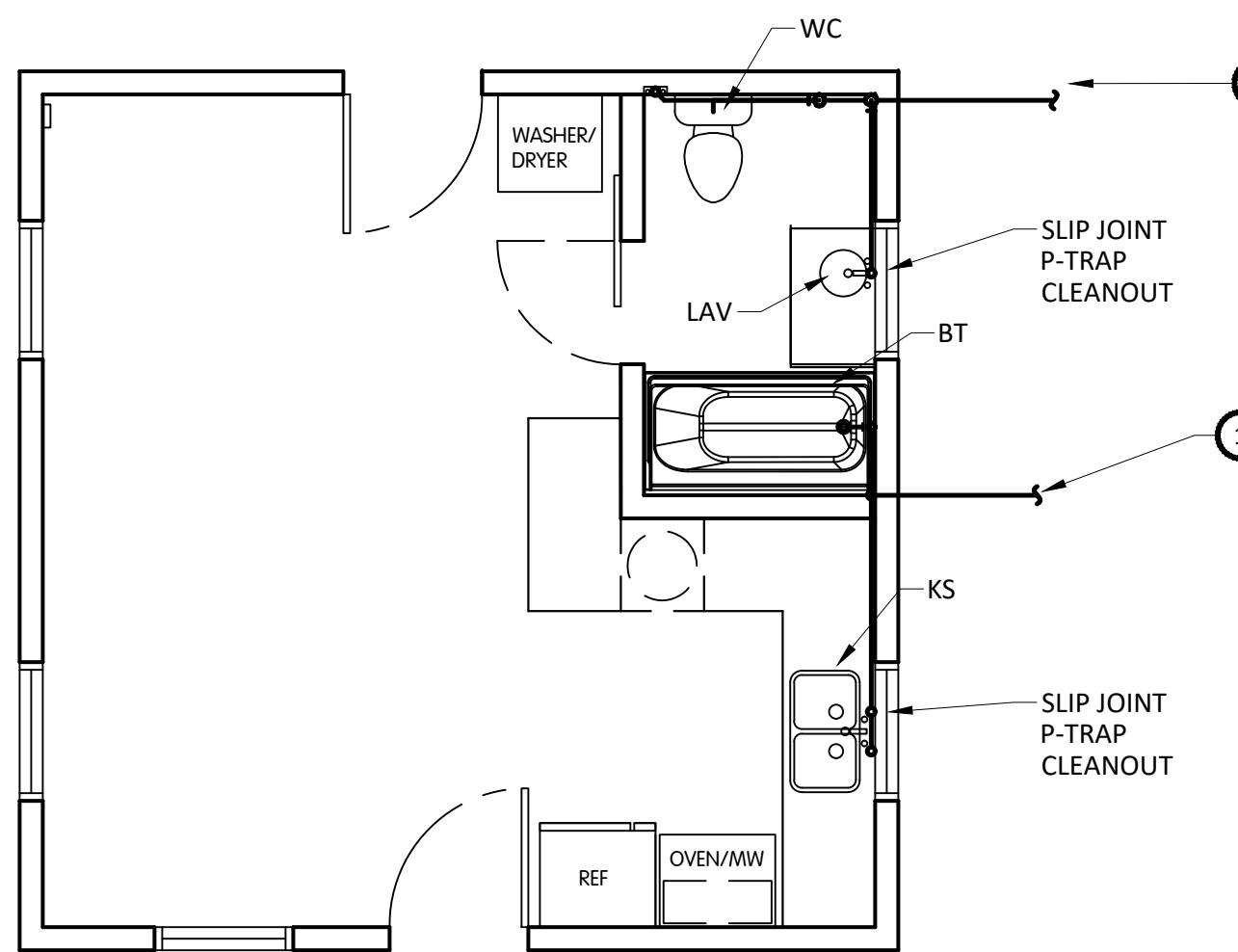
**MODEL:** 2 DOOR CASITA  
BXB-000009

SHEET: P2.0 (SHOWER

**PROPRIETARY AND CONFIDENTIAL**

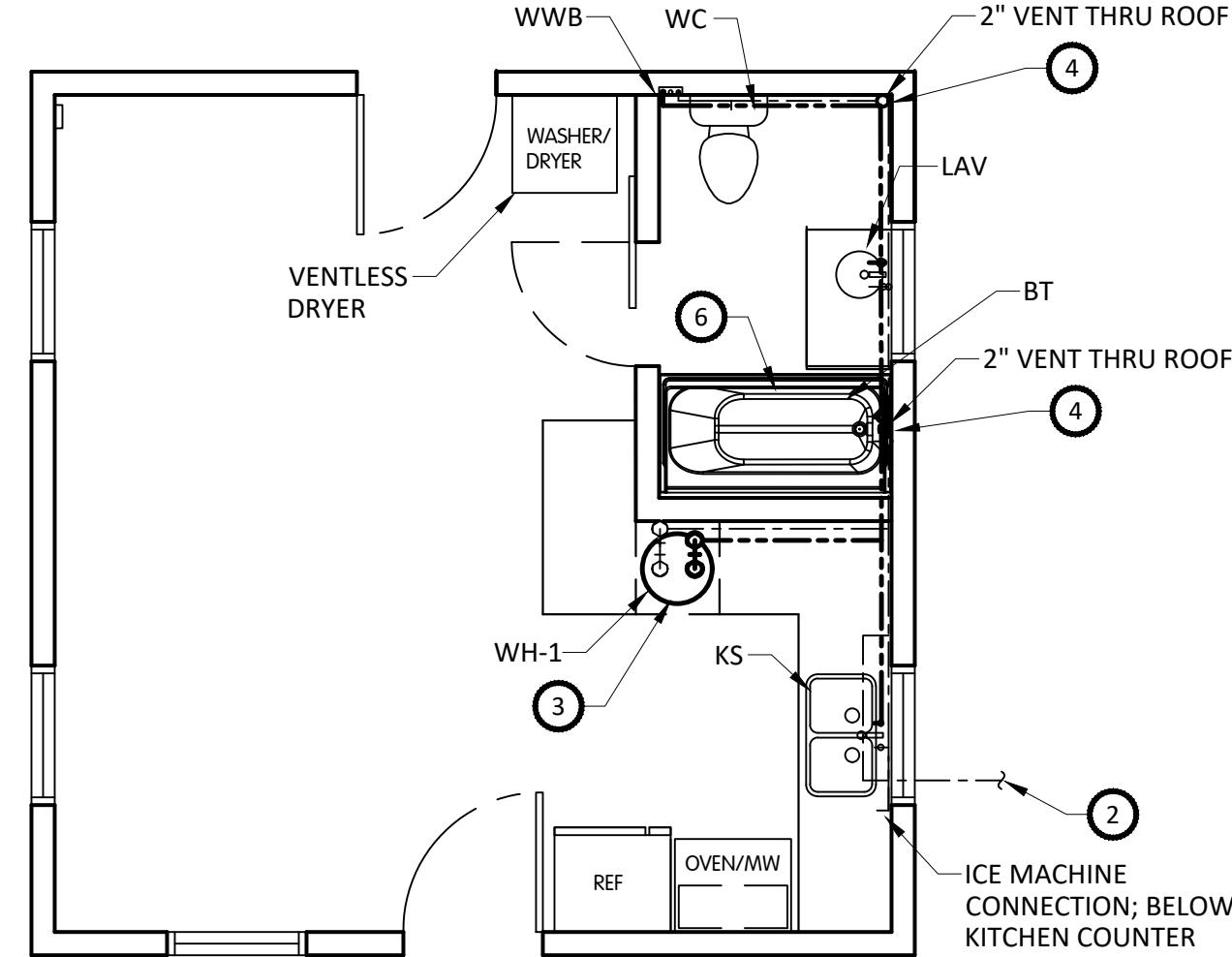
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# **PLUMBING SANITARY PLAN**

1 ————— 1/4" = 1'-0"



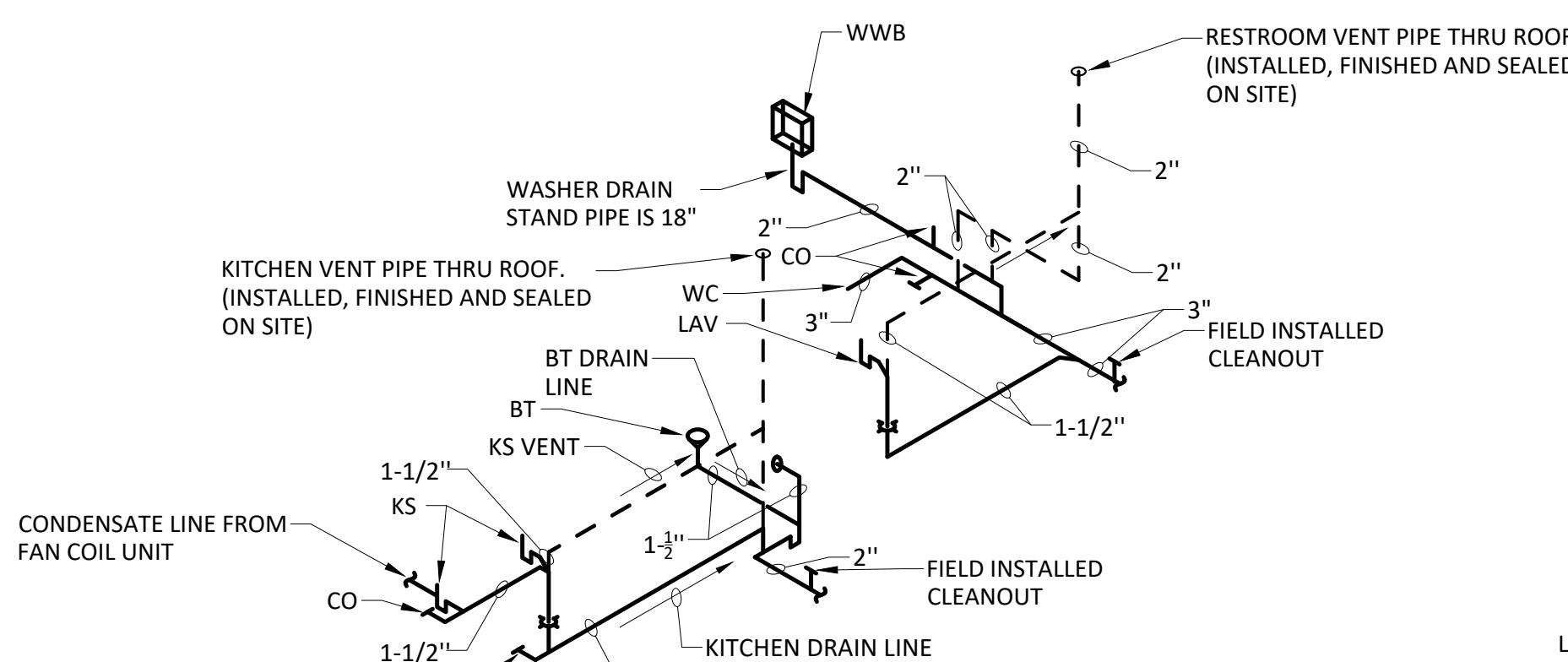
**2** PLUMBING DOMESTIC WATER PLAN  
1'11" - 11'6"

2  $\frac{1}{4}$ " = 1'-0"

# PLAN NOTES

1	PROVIDE 2" & 3" SANITARY PIPING TO THE NEW BOXABL HOUSE. COORDINATE WITH CIVIL DRAWINGS THE EXACT LOCATION OF THE NEW SANITARY PIPING.
2	PROVIDE 3/4" DOMESTIC COLD WATER TO NEW BOXABL HOUSE. COORDINATE WITH CIVIL DRAWINGS THE EXACT LOCATION OF THE NEW DOMESTIC COLD WATER PIPING.
3	ACCESS TO THE TANK WATER HEATER IS THRU A REMOVABLE PANEL IN THE CABINET.
4	2" VENT THRU ROOF, SEE PIPING ISOMETRICS FOR ALL VENT PIPING. 2" COUPLING HUB AT EXTERIOR ROOF PANEL FOR ROOF VENT CONNECTION ON SITE. VENT SHALL BE 10' ABOVE BOTTOM OF FLOOR OF UNIT.
5	WHOLE HOUSE WATER HAMMER ARRESTOR MIFAB MODEL CL-A-NPB. WATER HAMMER ARRESTOR TO BE MAUFACUTURED BY MIFAB OR AN APPROVED EQUIVALENT.
6	PROVIDE BATH TUB, COORDINATE EXACT MODEL, COLOR AND SIZE WITH OWNER.

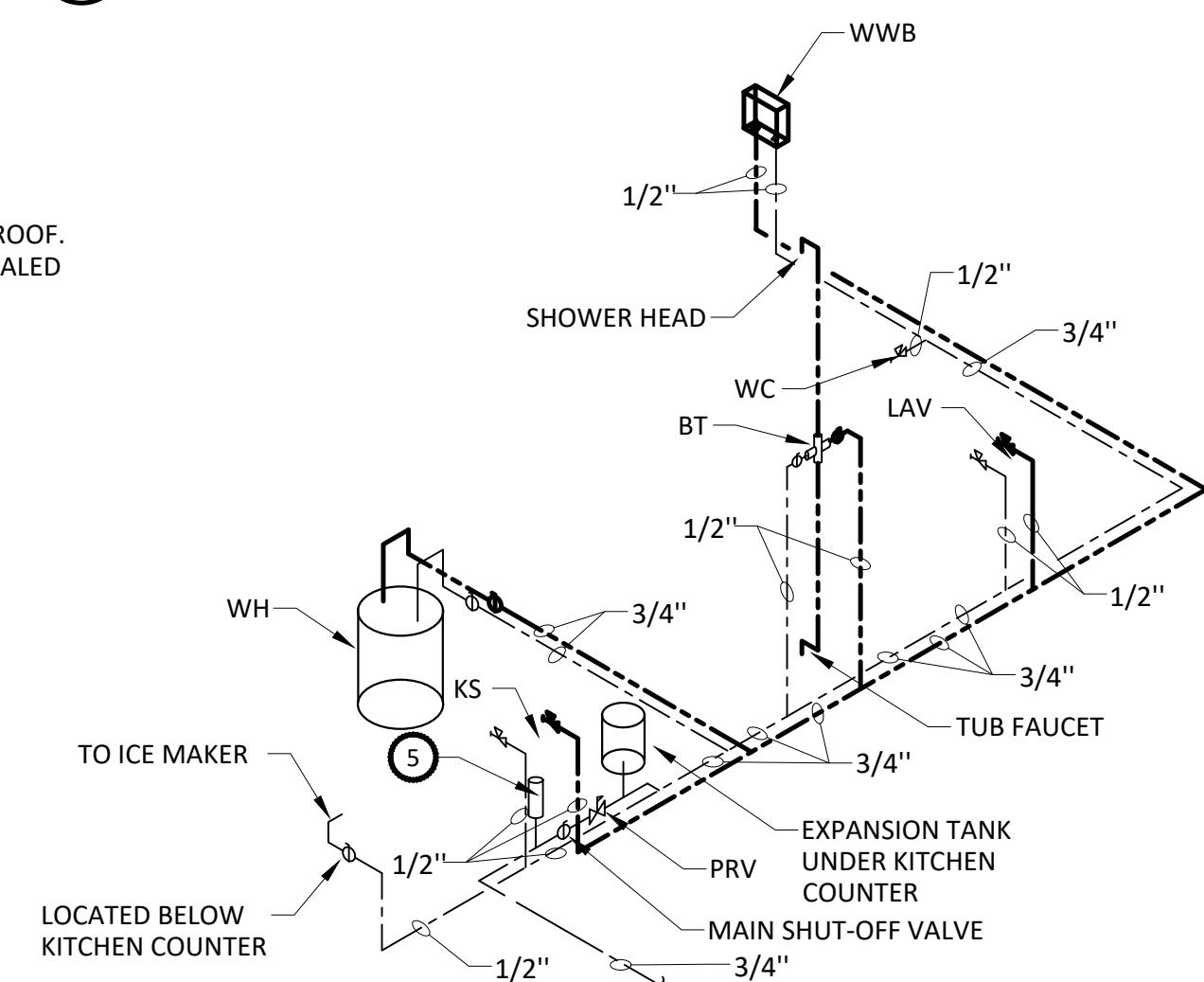
**NO PLUMBING PIPES/LINES SHALL RUN  
WITHIN THE WALL/FLOOR/ROOF  
PANELS**



# **3 PLUMBING SANITARY ISOMETRIC**

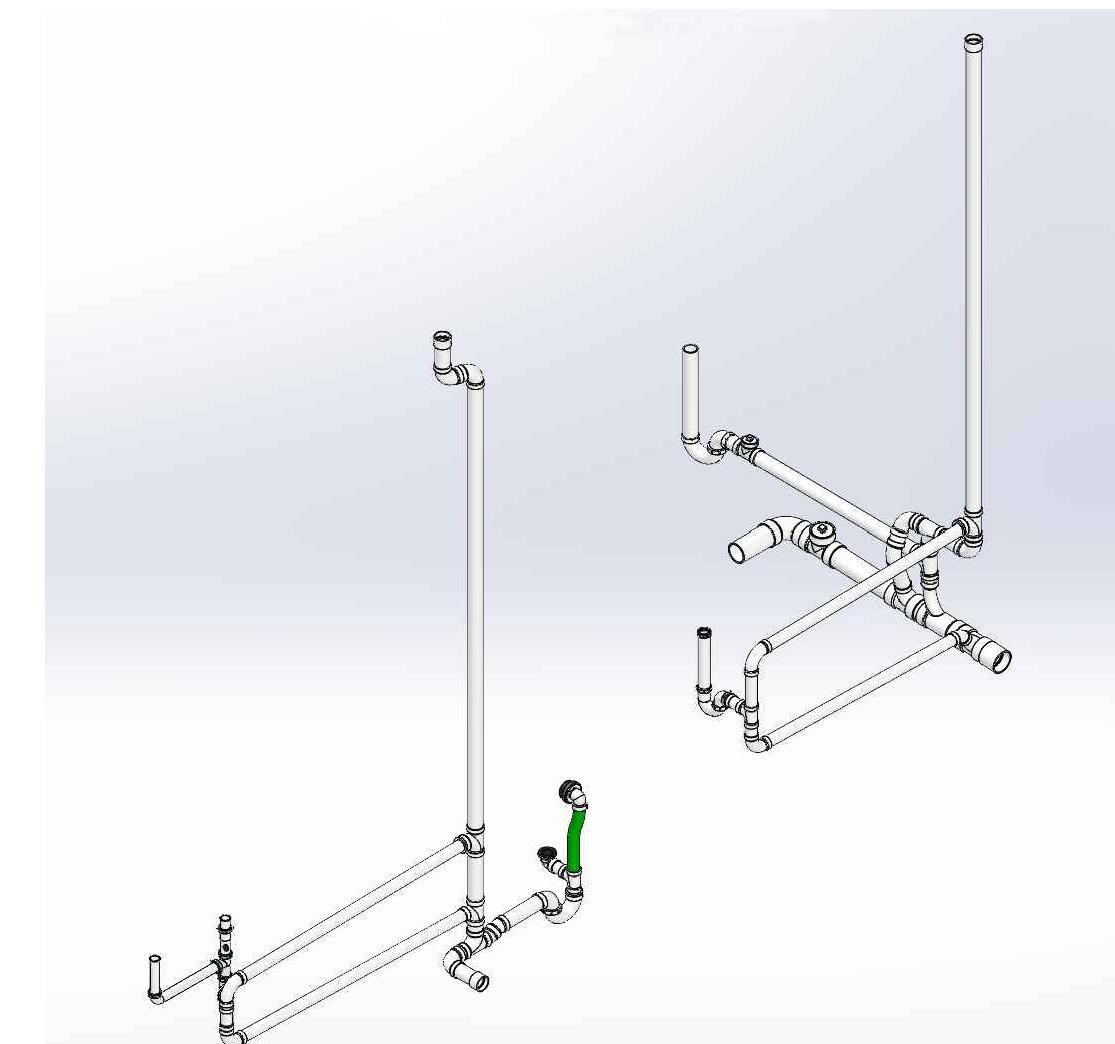
NOT TO SCALE

(3) \_\_\_\_\_  
NOT TO SCALE



# 4 PLUMBING DOMESTIC WATER ISOMETRIC

(4)  NOT TO SCALE



## PIPING DIAGRAMS

---

NOT TO SCALE

PLUMBING PLANS

DATE:	REV:	DESCRIPTION:

# BOXABL INC.

5345 EAST NORTH BELT ROAD  
NORTH LAS VEGAS, NV 89115, USA

+1(702) 500-9000      HELLO@BOXABL.COM

**MODEL:** 2 DOOR CASITA  
BXB-000009

SHEET: P2.1 (BATHTUB)

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## Fixture Schedules

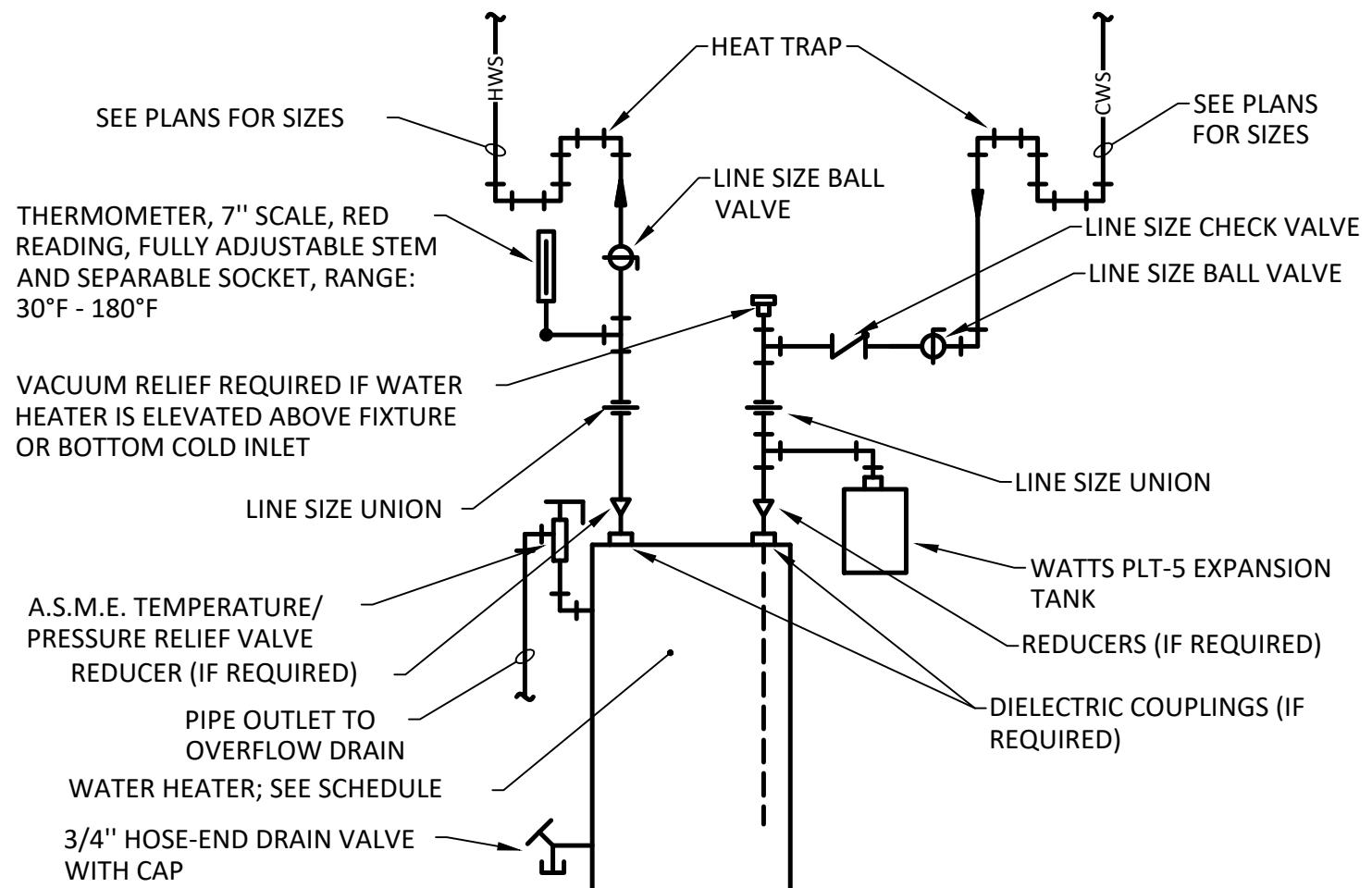
Fixture	Type	Mfg'r.	Model No.	Color	Faucet	Trap	Trim	Supply Fitting	Remarks
WC	WATER CLOSET	SANIFLO	083 & 005	WHITE	N/A	INTERGRAL P-TRAP	N/A	3/8"	1.28 GALLONS/FLUSH
LAV	LAVATORY	BEELEE	BL6790BH	MATTE BLACK	1.2 GPM	N/A	MATTE BLACK	3/8"	
KS	KITCHEN FAUCET	MOEN	5925BL	MATTE BLACK	1.5 GPM	N/A	MATTE BLACK	3/8"	
SH	SHOWER	MOEN	T2472EPBL	MATTE BLACK	1.75 GPM	N/A	MATTE BLACK	1/2"	
WWB-1	WASHER WALL BOX	SIOUX CHIEF	688-G10	WHITE	N/A	N/A	N/A	2 @1/2"	

NOTE: FIXTURES TO BE PROVIDED BY MANUFACTURER AS SCHEDULED OR AN APPROVED EQUIVALENT.

## WATER HEATER SCHEDULE

DESIG'N.	TYPE	MFG'R.	MODEL NO.	STORAGE GALLON CAPACITY	FIRST HOUR RATING GALLONS	ELECTRICAL			RECOVERY AT 80°F RISE	TANK LINING	WARRANTY	UEF	REMARKS
						KW	VOLTAGE	PHASE					
WH-1	TANK	BRADFORD WHITE	RE130L6	28	45	4.5	240	SINGLE	23	YES	YES	0.95	

NOTE: WATER HEATER TO BE MANUFACTURED BY BRADFORD WHITE OR AN APPROVED EQUAL.  
WATER HEATER IS UNVENTED TYPE AND IS NOT PROVIDED WITH A FLUE COLLAR. WATER HEATER DOES NOT HAVE A VENT CONNECTION PER MANUFACTURER INSTALLATION MANUAL. WATER HEATER IS LISTED TO UL 174 WHICH DOES NOT STATE ANY REQUIREMENT FOR ELECTRIC WATER HEATER VENTILATION.



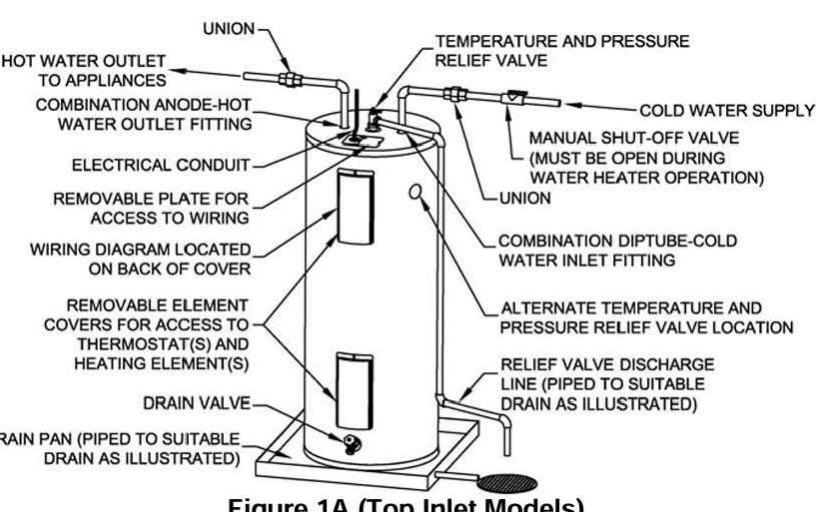
## DOMESTIC WATER HEATER PIPING DETAIL - ELECTRIC

NOT TO SCALE

WATER SUPPLY FIXTURE UNITS								
Quantity	Fixture Tag	Fixture	Occupancy	Type of Supply Control	Load Values in water supply fixture units (wsfu)	Total Load Values in water supply fixture units (wsfu)	Cold	Hot
1 DW	Dishwashing machine	Private	Automatic	0.00	1.40	1.40	0.00	1.40
1 IM	Ice Machine	Private	3/8" valve	0.50	0.00	0.50	0.50	0.00
1 KS	Kitchen Sink	Private	Faucet	1.00	1.00	1.40	1.00	1.00
1 LAV	Lavatory	Private	Faucet	0.50	0.50	0.70	0.50	0.50
1 SH	Shower head	Private	Mixing valve	1.00	1.00	1.40	1.00	1.00
1 WM	Washing Machine (8 lb)	Private	Automatic	1.00	1.00	1.40	1.00	1.40
1 WC	Water closet	Private	Flush tank	2.20	0.00	2.20	2.20	0.00
<b>Total WSFU</b>					6.20	4.90	9.00	

UNION

DRAINAGE FIXTURE UNITS				
Tag	Fixture Type	Drainage Fixture Unit Value As Load Factors	Minimum Size of Trap (inches)	Total Drainage Fixture Unit Value As Load Factors
	Automatic clothes washers, residential	2.00	2.00	2.00
	Dishwashing machine, domestic	2.00	1.50	2.00
	Kitchen sink, domestic	2.00	1.50	2.00
	Lavatory	1.00	1.25	1.00
	Shower Flow Rate 5.7 gpm or less	2.00	2.00	2.00
	Water closet, private (1.6 gpf)	3.00	3.00	3.00
<b>Total DFU's</b>				
12.00				



General Features

Rated Nominal Volume (Gallons): 28

DOE Rated Storage Volume (Gallons): 23

Fuel Type: Electric

Energy Star: No

Connectivity: Not WiFi Compatible

Weights and Dimensions

Overall Height (in.): 31.813

Height (Floor To Top of Heater - in.): 29.563

Jacket Diameter (in.): 20

Weight (lbs.): 108

Performance

Element Watts: 4500

First Hour Delivery Rating (Gal.): 45

Uniform Energy Factor (UEF): 0.95

Recovery at 90°F Rise (GPH): 21

Venting and Connection Requirements

Venting: Non-Vented

Water Connection Size (in.): 3/4" NPT

## DOMESTIC WATER HEATER TECHNICAL INFORMATION

NOT TO SCALE

DATE:	REV:	DESCRIPTION:

BOXABL INC.

5345 EAST NORTH BELT ROAD  
NORTH LAS VEGAS, NV 89115, USA  
+1(702) 500-9000 HELLO@BOXABL.COM

**MODEL: 2 DOOR CASITA**  
**BXB-00009**

**SHEET: P3.0 (SHOWER)**

**PROPRIETARY AND CONFIDENTIAL**  
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## Fixture Schedules

Fixture	Type	Mfg'r.	Model No.	Color	Faucet	Trap	Trim	Supply Fitting	Remarks
WC	WATER CLOSET	SANIFLO	083 & 005	WHITE	N/A	INTERGRAL P-TRAP	N/A	3/8"	1.28 GALLONS/FLUSH
LAV	LAVATORY	BEELEE	BL6790BH	MATTE BLACK	1.2 GPM	N/A	MATTE BLACK	3/8"	
KS	KITCHEN FAUCET	MOEN	5925BL	MATTE BLACK	1.5 GPM	N/A	MATTE BLACK	3/8"	
BT	TUB/SHOWER	FAUCET: MOEN FIXTURE: AQUAMATIC	FAUCET: T2473EPBL FIXTURE: 6032TTM OR 2603SMTH	FAUCET: MATTE BLACK FIXTURE: PER OWNER	1.75 GPM	N/A	MATTE BLACK	1/2"	PROVIDE WITH INTEGRAL GRAB BAR SUPPORT
WWB-1	WASHER WALL BOX	SIOUX CHIEF	688-G10	WHITE	N/A	N/A	N/A	2 @1/2"	

NOTE: FIXTURES TO BE PROVIDED BY MANUFACTURER AS SCHEDULED OR AN APPROVED EQUIVALENT.

## WATER HEATER SCHEDULE

DESIG'N.	TYPE	MFG'R.	MODEL NO.	STORAGE GALLON CAPACITY	FIRST HOUR RATING GALLONS	ELECTRICAL			RECOVERY AT 80°F RISE	TANK LINING	WARRANTY	UEF	REMARKS
						KW	VOLTAGE	PHASE					
WH-1	TANK	BRADFORD WHITE	RE130L6	28	45	4.5	240	SINGLE	23	YES	YES	0.95	

NOTE: WATER HEATER TO BE MANUFACTURED BY BRADFORD WHITE OR AN APPROVED EQUAL.  
WATER HEATER IS UNVENTED TYPE AND IS NOT PROVIDED WITH A FLUE COLLAR. WATER HEATER DOES NOT HAVE A VENT CONNECTION PER MANUFACTURER INSTALLATION MANUAL. WATER HEATER IS LISTED TO UL 174 WHICH DOES NOT STATE ANY REQUIREMENT FOR ELECTRIC WATER HEATER VENTILATION.

WATER SUPPLY FIXTURE UNITS								
Quantity	Fixture Tag	Fixture	Occupancy	Type of Supply Control	Load Values in water supply fixture units (wsfu)	Total	Total Load Values in water supply fixture units (wsfu)	Total
				Cold	Hot		Cold	Hot
1 DW	Dishwashing machine	Private	Automatic	0.00	1.40	1.40	0.00	1.40
1 IM	Ice Machine	Private	3/8" valve	0.50	0.00	0.50	0.50	0.00
1 KS	Kitchen Sink	Private	Faucet	1.00	1.00	1.40	1.00	1.00
1 LAV	Lavatory	Private	Faucet	0.50	0.50	0.70	0.50	0.50
1 BT	Tub/Shower	Private	Mixing valve	1.00	1.00	1.40	1.00	1.00
1 WM	Washing Machine (8 lb)	Private	Automatic	1.00	1.00	1.40	1.00	1.00
1 WC	Water closet	Private	Flush tank	2.20	0.00	2.20	2.20	0.00
<b>Total WSFU</b>					6.20	4.90	9.00	

DRAINAGE FIXTURE UNITS				
Quantity	Fixture Tag	Fixture Type	Drainage Fixture Unit Value As Load Factors	Minimum Size of Trap (inches)
1 WM	Automatic clothes washers, residential		2.00	2.00
1 DW	Dishwashing machine, domestic		2.00	1.50
1 KS	Kitchen sink, domestic		2.00	1.50
1 LAV	Lavatory		1.00	1.25
1 BT	Tub/Shower Flow Rate 5.7 gpm or less		2.00	2.00
1 WC	Water closet, private (1.6 gpf)		3.00	3.00
<b>Total DFU's</b>				
12.00				

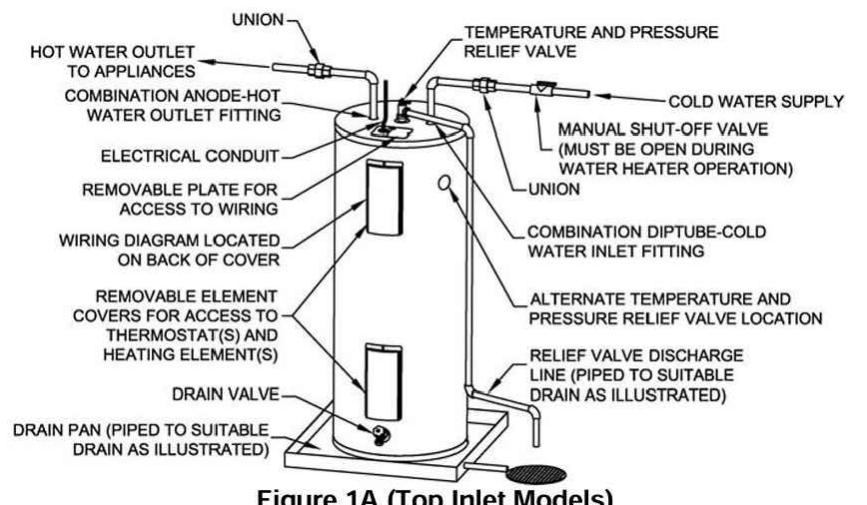


Figure 1A (Top Inlet Models)

General Features	
Rated Nominal Volume (Gallons):	28
DOE Rated Storage Volume (Gallons):	23
Fuel Type:	Electric
Energy Star:	No
Connectivity:	Not WiFi Compatible

Performance	
Element Watts:	4500
First Hour Delivery Rating (Gal.):	45
Uniform Energy Factor (UEF):	0.95
Recovery at 90°F Rise (GPH):	21

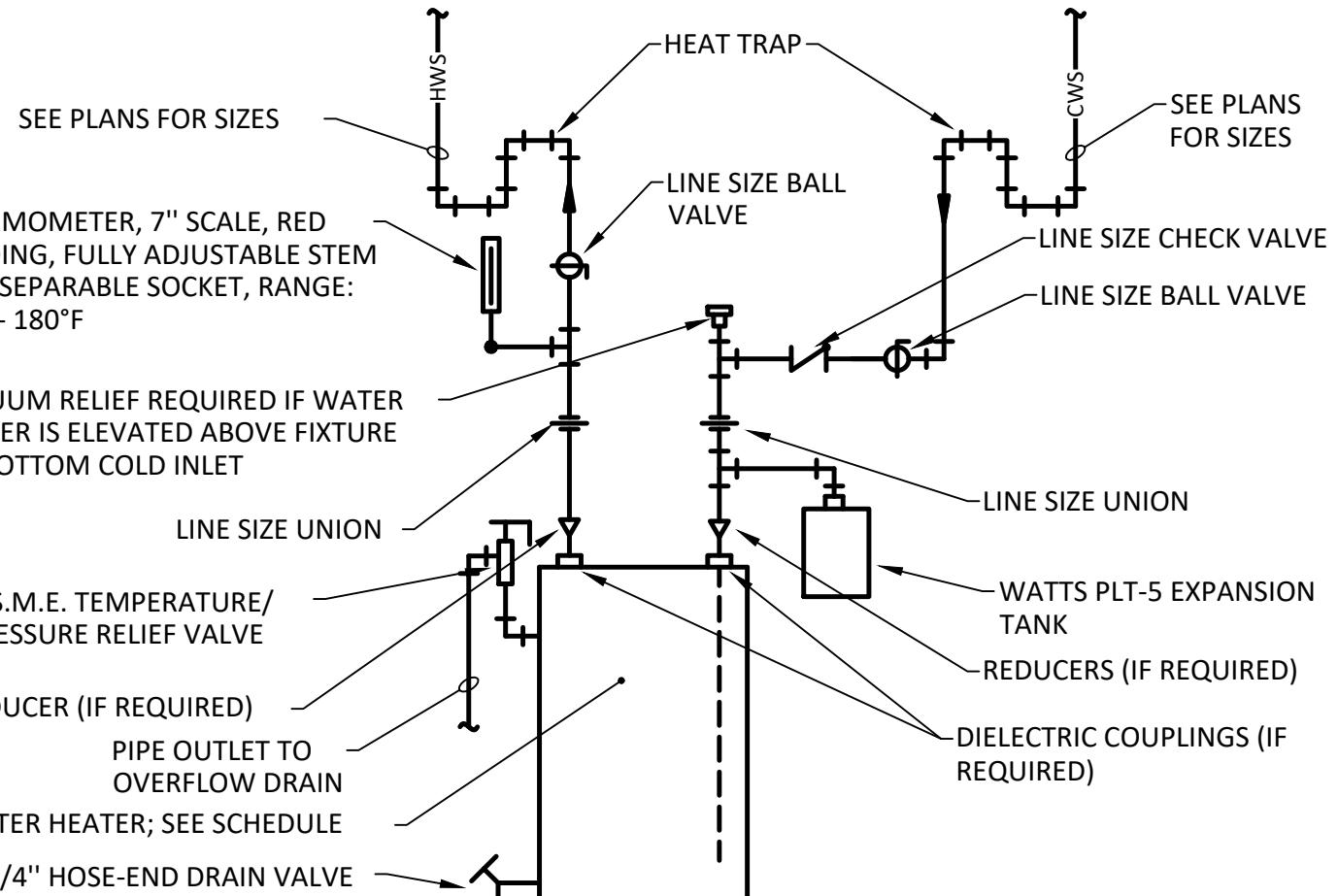
Weights and Dimensions	
Overall Height (in.):	31.813
Height (Floor To Top of Heater - in.):	29.563
Jacket Diameter (in.):	20
Weight (lbs.):	108

Venting and Connection Requirements	
Venting:	Non-Vented
Water Connection Size (in.):	3/4" NPT

### DOMESTIC WATER HEATER TECHNICAL INFORMATION

NOT TO SCALE



### DOMESTIC WATER HEATER PIPING DETAIL - ELECTRIC

NOT TO SCALE

DATE:	REV:	DESCRIPTION:

**BOXABL INC.**

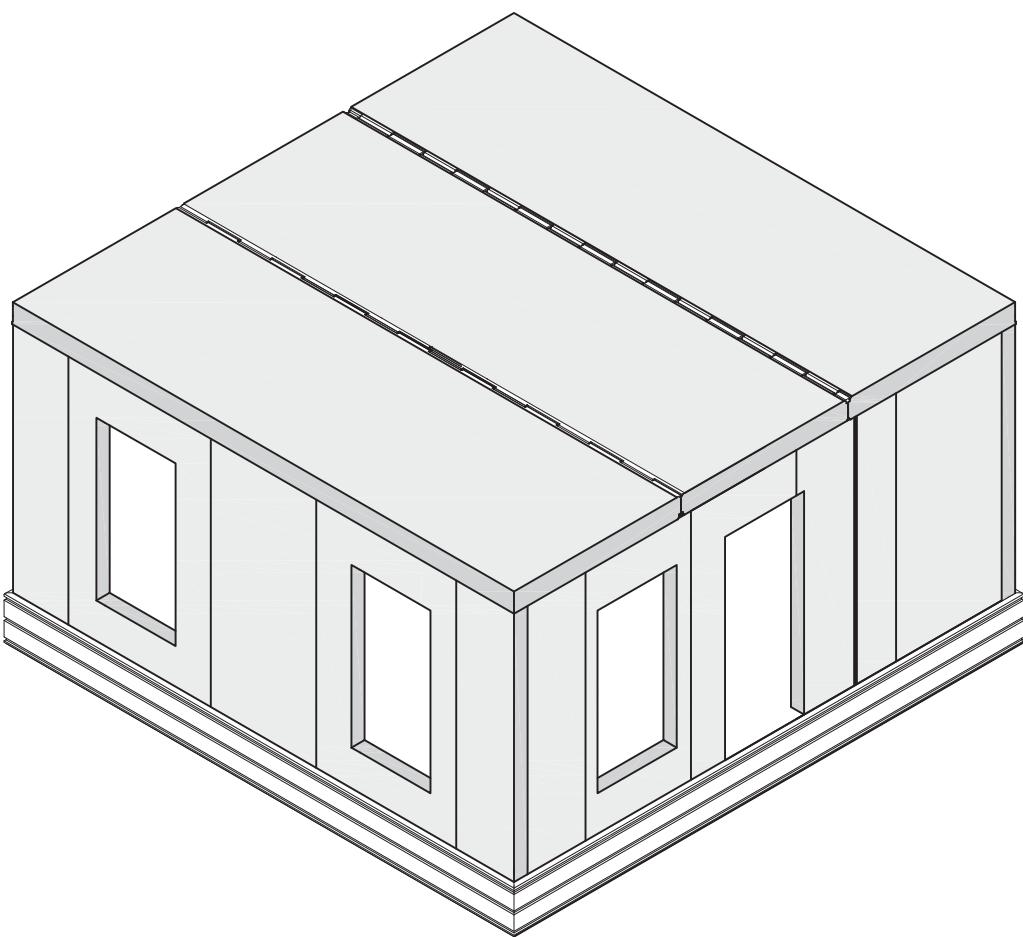
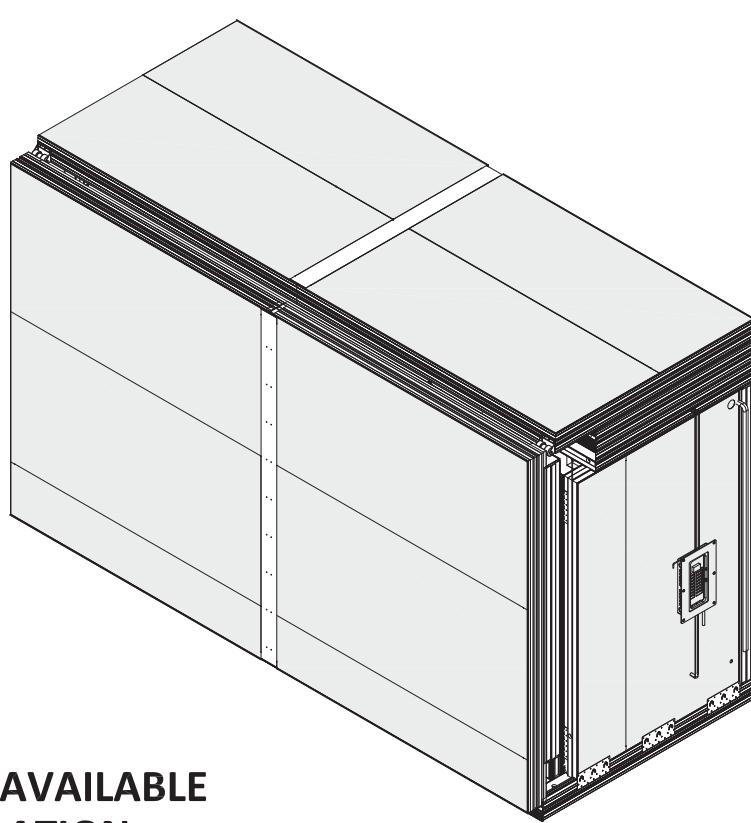
5345 EAST NORTH BELT ROAD  
NORTH LAS VEGAS, NV 89115, USA  
+1(702) 500-9000 HELLO@BOXABL.COM

**MODEL: 2 DOOR CASITA**  
**BXB-00009**

**SHEET: P3.1 (BATHTUB)**

**PROPRIETARY AND CONFIDENTIAL**  
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# 2-Door Studio Casita

## Model # BXB-000009

### SITE STRUCTURAL REQUIREMENTS

WIND, SNOW, & SEISMIC LIMITS  
CASITA-TO-FOUNDATION CONNECTIONS  
OPTIONAL TRUSS INFORMATION

#### **BOXABL SERVICES AVAILABLE FOR ROOF INSTALLATION:**

- ROOF PITCH OPTIONS
- EPS OVER STANDARD TPO ROOFING

#### **OPTIONAL PRE-ENGINEERED WOOD TRUSSES:**

- 1 TRUSSES TO BE FABRICATED BY A CERTIFIED MEMBER OF THE TRUSS PLATE INSTITUTE AND SHALL COMPLY WITH THEIR STANDARDS.
- 2 CONNECTING PLATES SHALL BE IBC/ICBO APPROVED.
- 3 ALL TRUSSES MEMBERS SHALL HAVE LUMBER GRADE STAMPS.
- 4 THE TRUSS DESIGN AND ERECTION DRAWINGS SHALL BE MADE BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE IN QUESTION.
- 5 ERECTION PLANS SHALL SHOW THE TRUSS SPACING, TRUSS MARK (CALCULATION) NUMBERS, CONCENTRATED LOADS, & PERMANENT BRACING/BLOCKING AS REQUIRED BY THE TRUSS DESIGN.
- 6 SHOP DRAWINGS SHALL INCLUDE DIMENSIONS, CONFIGURATIONS, NOMINAL LUMBER SIZE AND GRADE, SPECIFICATIONS FOR CONNECTOR PLATES, THEIR SIZE AND LOCATIONS.
7. SEE SHEET S6, S7, & S8 FOR MORE INFO.

#### **FOUNDATIONS :**

FOUNDATIONS SHOULD BE ON RELATIVELY FLAT, LEVEL GROUND, EXTENDING AT LEAST 8 FT AROUND PERIMETER & NOT LOCATED IN AREAS WHERE SOIL IS SUBJECT TO LIQUIFICATION.

FOR EXPANSIVE SOILS, SEE SHEET S3.3.

A SAMPLE OF SUITABLE FOUNDATION TYPES ARE SHOWN ON SHEETS S3.0 THRU S3.3.

SITE-SPECIFIC, ENGINEERED DESIGNS TO BE PROVIDED BY OTHERS.

#### **ROOF REQUIREMENTS & LIMITATIONS:**

A SLOPED ROOF SYSTEM MUST BE INSTALLED ON-SITE USING ONE OF THE OPTIONS SHOWN ON SHEET S5 THRU S9. MAXIMUM ALLOWED TRUSS ROOF PITCHES, AS NOTED ON S6, S7 AND S8 ARE ACCOUNTED FOR IN THE STRUCTURAL CALCULATIONS FOR THE CASITAS WITH THESE OPTIONS.

MAXIMUM ROOFING WEIGHT OVER OPTIONAL TRUSSES : 16 psf  
MINIMUM TAPERED INSULATION SLOPE:  $\frac{1}{4}$  : 12.

MAXIMUM TAPERED INSULATION SLOPE  $\frac{1}{16}$  : 12 UNLESS FLOOR/FOUNDATION CONN. PL'S FOR TRUSS OPTIONS ARE USED PER THE S4 SERIES OF DRAWINNGS.

MAXIMUM TAPERED ROOFING WEIGHT:  
2 psf + 0.7 psf x (MAX. ALLOW. GROUND SNOW LOAD - ACTUAL GROUND SNOW LOAD )

MAXIMUM WEIGHT OF OPTIONAL ROOF TRUSS SYSTEM, INCLUDING SHEATHING & ROOFING = 16 psf UNLESS APPROVED BY THE ENGINEER ( INCLUDES A MAXIMUM ALLOWED WT OF CONCRETE TILE ( IF USED ) = 7 psf).

SEE SHEETS S5, S6, S7, S8 & S9 FOR FULL RANGE OF ROOF OPTIONS INCLUDING REQ'D MINIMUM SLOPE FOR TAPERED INSULATION ROOFS & MINIMUM & MAXIMUM SLOPES FOR ROOF TRUSSES.

#### **BUILDING PERMIT INFO:**

THESE DRAWINGS ARE ONLY FOR USE WHERE STRUCTURAL ENGINEERING IS NOT REQUIRED BY LOCAL, COUNTY, OR STATE AUTHORITIES HAVING JURISDICTION, AND ARE ONLY INTENDED TO AID CUSTOMERS IN UNDERSTANDING : LIMITATIONS REGARDING WIND, SNOW, SEISMIC & MATERIAL WEIGHT, FOUNDATION TYPE OPTIONS ( TO BE DESIGNED BY OTHERS ), THE CONNECTION REQUIREMENTS TO THE FOUNDATIONS, ADD-ON TRUSS OPTION REQUIREMENTS AND LIMITATIONS.

FOR PERMITS REQUIRING STRUCTURAL ENGINEERING, OR IF DESIRED BY THE CUSTOMER, CONTACT BOXABL, INC.

IF THE CUSTOMER DECLINES THE OPTION FOR AN ENGINEER- SEALED & SIGNED SET OF DRAWINGS AND/OR LOCATES A CASITA IN AN AREA WHERE THE WIND, SNOW OR SEISMIC LIMITS ARE EXCEEDED, BOXABL, INC. SHALL NOT ACCEPT RESPONSIBILITY OR LIABILITY FOR THE STRUCTURAL PERFORMANCE OF THE CASITA.

#### **LIMITATIONS: WIND<sup>7</sup> - SNOW - SEISMIC**

SEE FOOTNOTE 6 FOR DETERMINATION OF WIND LOADS, SNOW LOADS & SEISMIC FACTORS AT SITE OF INSTALLATION		TAPERED INSULATION ROOF SEE SHEET S5		TRUSS ROOF SEE SHEET S6 to S8	
WIND EXPOSURE <sup>1</sup>		B	C	B	C
MAX. ALLOWED <sup>5</sup> WIND SPEED		140 mph	120 mph	136 mph	112 mph
MAXIMUM ALLOWED GROUND SNOW LOAD <sup>3</sup> (psf)	SEISMIC CATEGORY A, B, C	41 psf <sup>3</sup>	41 psf <sup>3</sup>	87 psf <sup>8</sup>	72 psf <sup>8</sup>
	SEISMIC CATEGORY D, E, F	18.5 psf <sup>3</sup>	18.5 psf <sup>3</sup>	0 <sup>4</sup> ignore wind exposure	0 <sup>4</sup> ignore wind exposure
MAXIMUM ALLOWED SEISMIC S <sub>ms</sub>	SEISMIC CATEGORY A, B, C	3.12	3.12	5.93 if stucco used	4.42 if stucco used
	SEISMIC CATEGORY D, E, F	3.12	3.12	1.8 if stucco used	3.44 if stucco used
MAXIMUM ALLOWED SEISMIC S <sub>s</sub>	SEISMIC CATEGORY A, B, C	2.60	2.60	4.94 if stucco used	3.68 if stucco used
	SEISMIC CATEGORY D, E, F	2.60	2.60	1.5 if stucco used	2.87 if stucco used

<sup>1</sup> EXPOSURE B IS URBAN AND SUBURBAN AREAS, WOODED AREAS, OR OTHER TERRAIN w/ NUMEROUS, CLOSELY SPACED OBSTRUCTIONS THAT HAVE A SIZE OF A SINGLE-FAMILY DWELLING. THESE CONDITIONS PREVAIL IN THE UPWIND DIRECTION FOR A DISTANCE GREATER THAN 1,500 FT.  
EXPOSURE C IS OPEN TERRAIN w/ SCATTERED OBSTRUCTIONS THAT HAVE HEIGHTS GENERALLY LESS THAN 30 FT. THIS INCLUDES FLAT, OPEN COUNTRY AND GRASSLANDS.

EXPOSURE D (NOT ALLOWED) IS FLAT, UNOBSTRUCTED AREAS ( MUD FLATS, SALT FLATS ) AND WATER SURFACES. THESE CONDITIONS PREVAIL IN THE UPWIND DIRECTION FOR A DISTANCE > 5,000 FT. THIS EXPOSURE ALSO APPLIES WHERE EXPOSURE B OR C OCCURS WITHIN THE FIRST 600 FT OF THE SITE.

<sup>2</sup> MAXIMUM ALLOWED CONCRETE TILE WEIGHT = 7 psf

<sup>3</sup> MAY BE INCREASED IF WIND SPEED IS LESS THAN INDICATED IN TABLE - CONTACT BOXABL FOR EVALUATION. ALSO, IF LOCATED TIGHT IN AMONG CONIFER TREES MULTIPLY LOAD BY 0.83

<sup>4</sup> ROOF TRUSSES IN SEISMIC CATEGORY D & E MUST BE PARALLEL TO THE KITCHEN SIDE OF THE CASITA, (SEE S10 & S11) AND BE LOCATED IN AN AREA WITH NO SNOW LOAD

<sup>5</sup> BASIC (ULTIMATE) WIND SPEED AS DEFINED BY THE INTERNATIONAL BUILDING CODE.

<sup>6</sup> FIND WIND SPEED, GROUND SNOW LOAD, SEISMIC CATEGORY & SEISMIC S<sub>ms</sub> & S<sub>s</sub> VALUES AT [ASCEHAZARDTOOL.ORG](http://ASCEHAZARDTOOL.ORG) USING ASCE/SEI 7-22, RISK CATEGORY II, SOIL CLASS "D". VERIFY BASIC (ULTIMATE) WIND AND GROUND SNOW LOAD VALUES WITH THE LOCAL OR COUNTY BUILDING DEPARTMENT. CUSTOMER IS RESPONSIBLE FOR VERIFYING THEIR WIND, SNOW & SEISMIC FACTORS ARE WITHIN THE ALLOWABLE LIMITS IN TABLE ABOVE.

<sup>7</sup> CASITAS LOCATED ON HILLS OR WITHIN 1,000 FT OF AN ESCARPMENT WILL REQUIRE SPECIAL EVALUATION BY THE STRUCTURAL ENGINEER.

<sup>8</sup> MAY BE INCREASED IF WIND SPEED IS LESS THAN INDICATED IN TABLE - CONTACT BOXABL FOR EVALUATION.

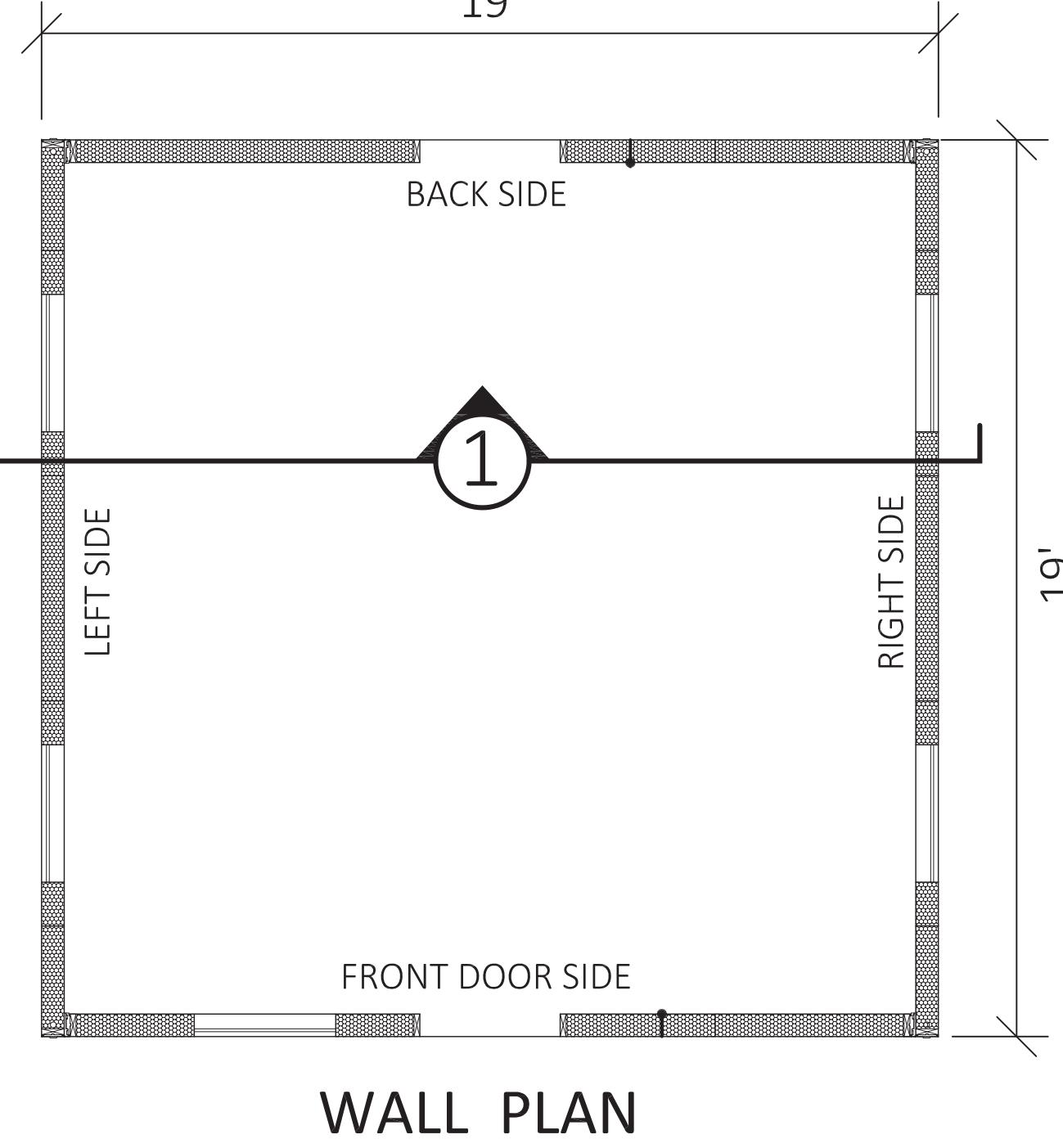
CUSTOMER IS RESPONSIBLE FOR VERIFYING THEIR WIND, SNOW AND SEISMIC CONDITIONS ARE WITHIN ALLOWABLE LIMITS INDICATED AT ABOVE, AS WELL AS INVESTIGATING FOR SOIL LIQUIFICATION (FORBIDDEN) OR EXPANSIVE SOIL CONDITIONS ( SEE S3.3 )

DATE:	REV:	DESCRIPTION:

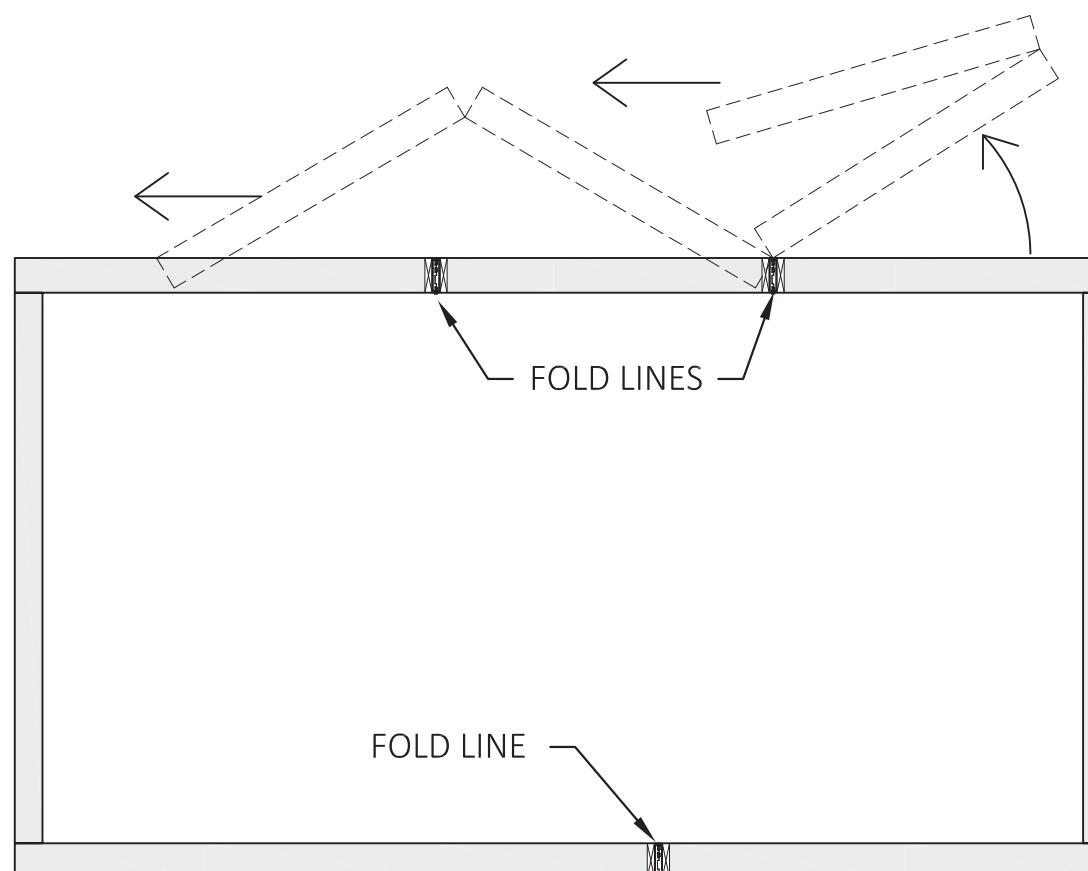
## GENERAL NOTES

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY: MN	MODEL #: BXB-000009	+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S1		

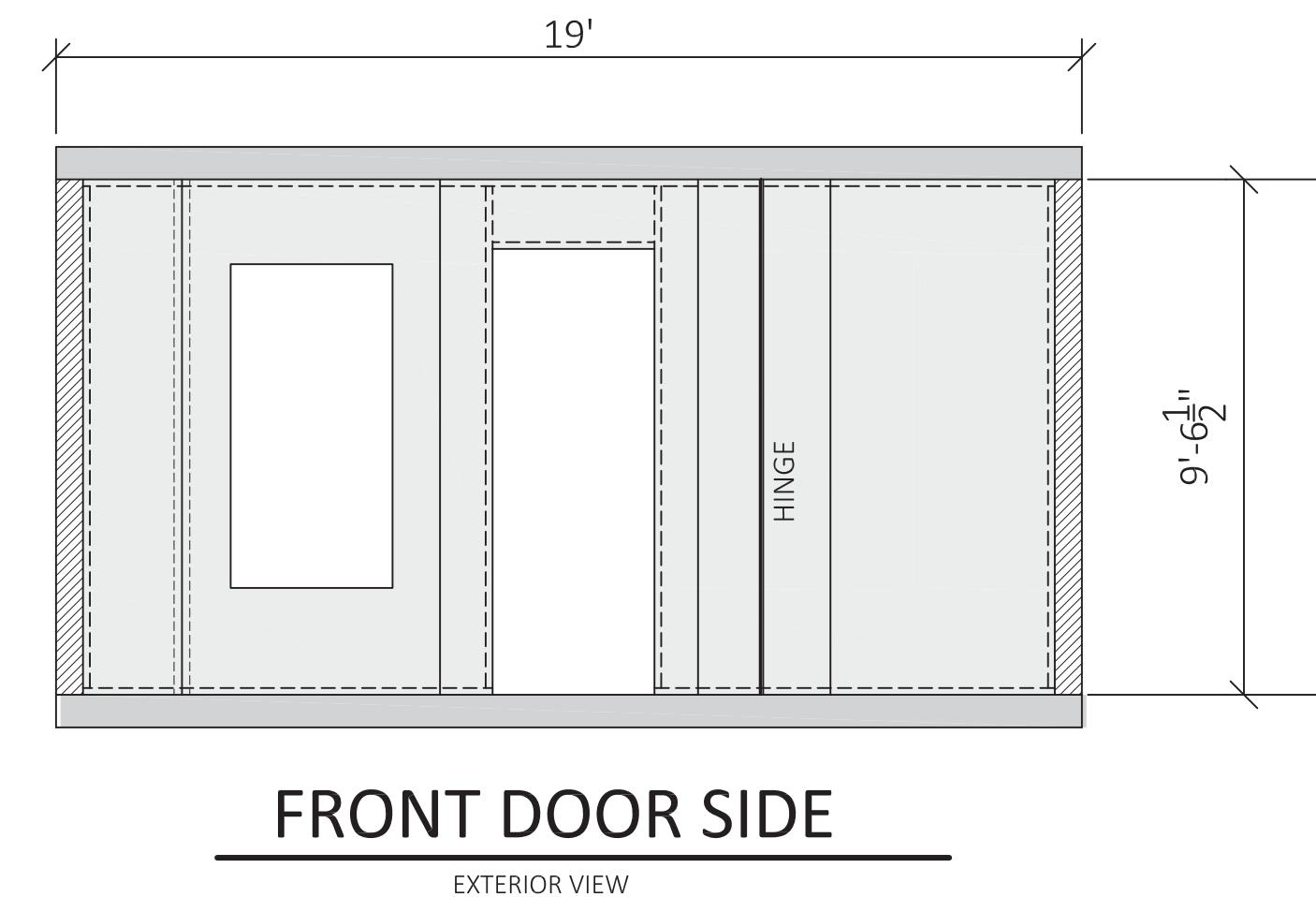




WALL PLAN

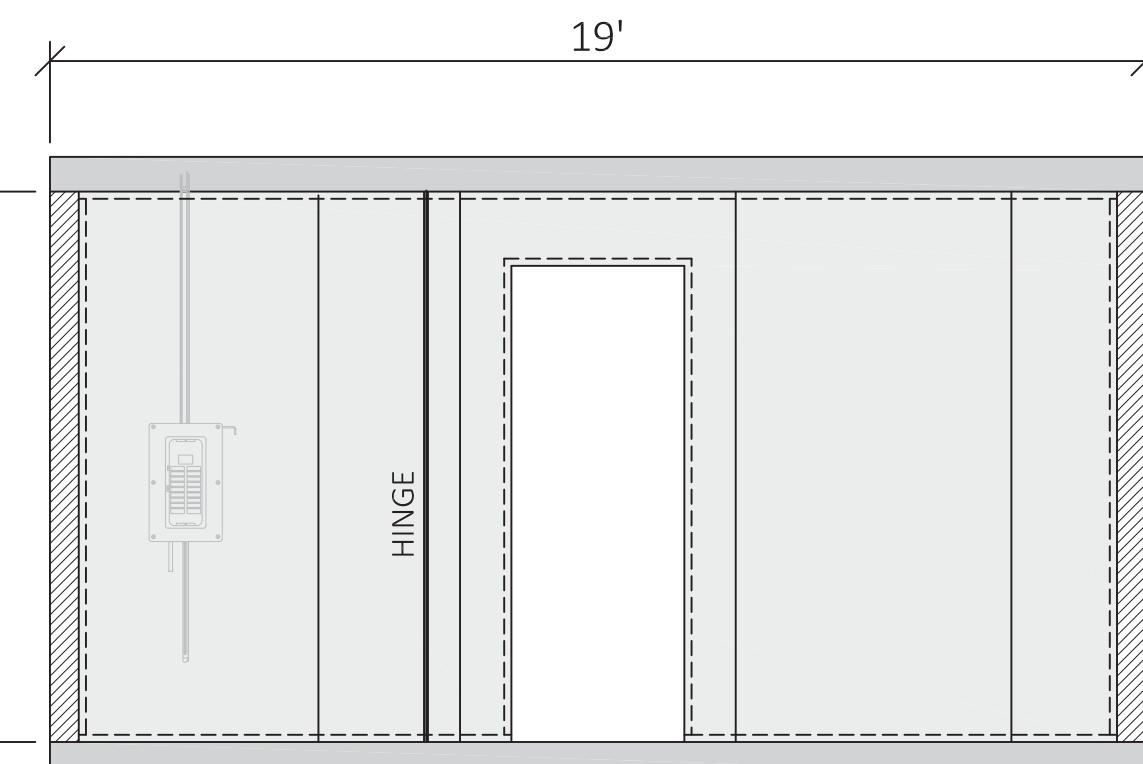


① SECTION



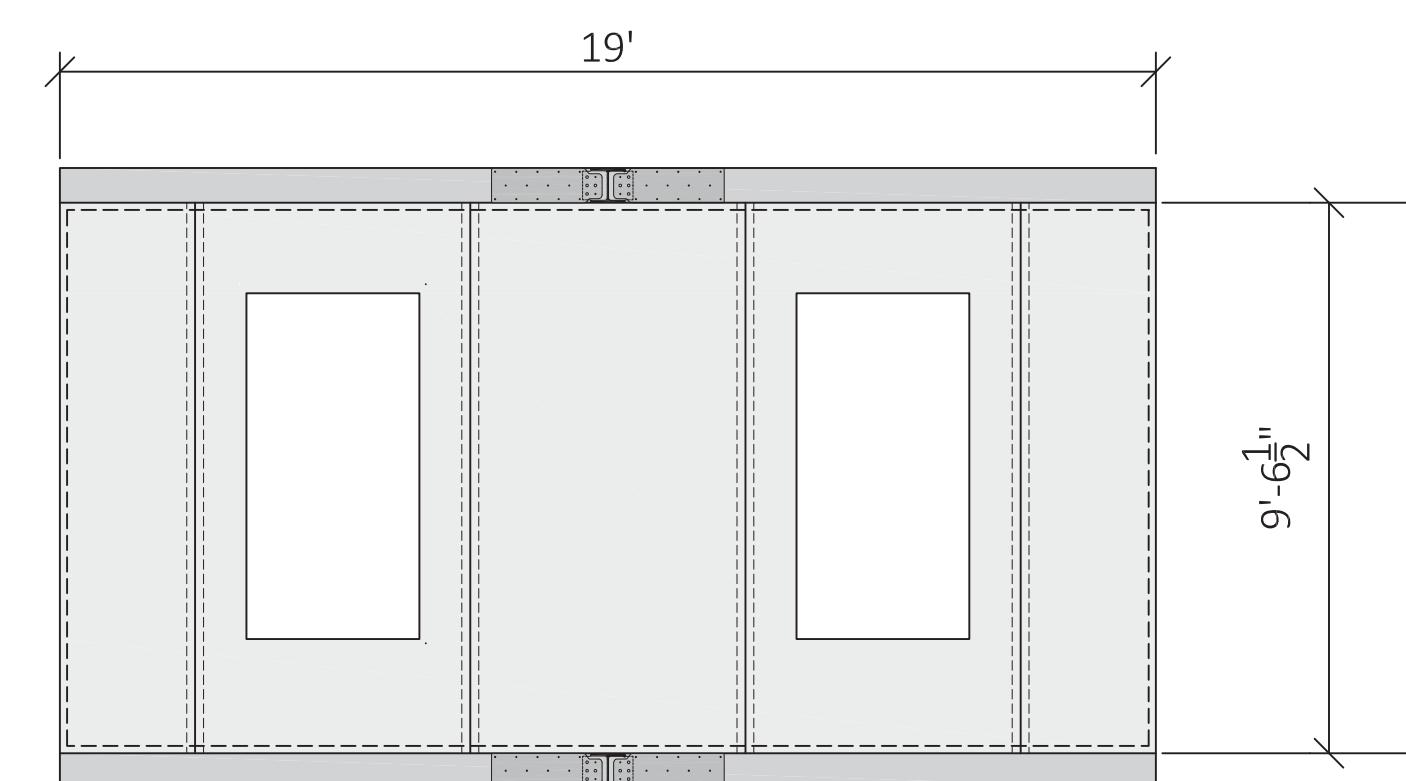
FRONT DOOR SIDE

EXTERIOR VIEW



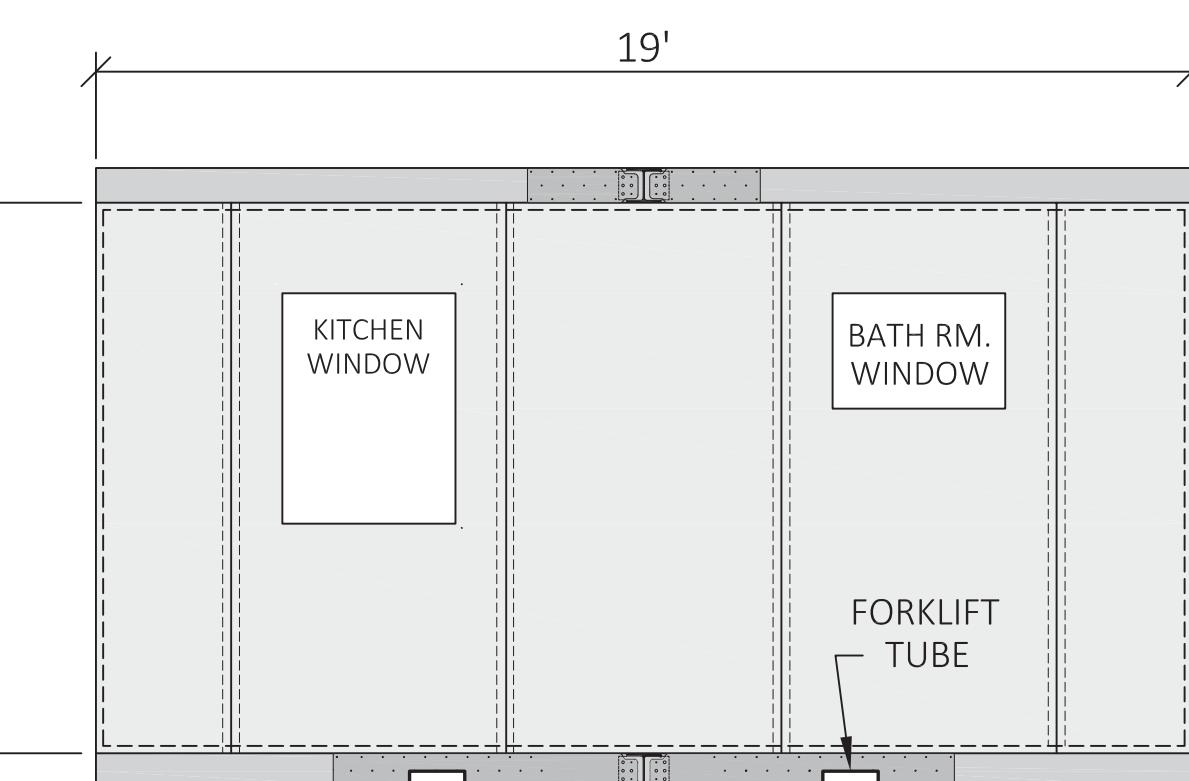
BACK SIDE

EXTERIOR VIEW



LEFT SIDE

EXTERIOR VIEW



RIGHT SIDE

EXTERIOR VIEW

DATE:	REV:	DESCRIPTION:

## WALL ELEVATIONS

UNITS: FT-IN  
SHEET FORMAT: ARCH C  
SHEET SCALE: NONE  
CREATED BY: MN  
RELEASE DATE: 1/31/2024  
SHEET: S2

MODEL: 2 DOOR CASITA  
MODEL #: BXB-000009

BOXABL INC.  
5345 EAST NORTH BELT ROAD  
NORTH LAS VEGAS, NV 89115, USA  
+1(702) 500-9000 HELLO@BOXABL.COM



# **STEMWALL FOOTING OPTION**

## DESIGNED BY OTHERS

**SEE S3.3 FOR FOUNDATION CONCEPT  
FOR EXPANSIVE SOIL CONDITIONS**

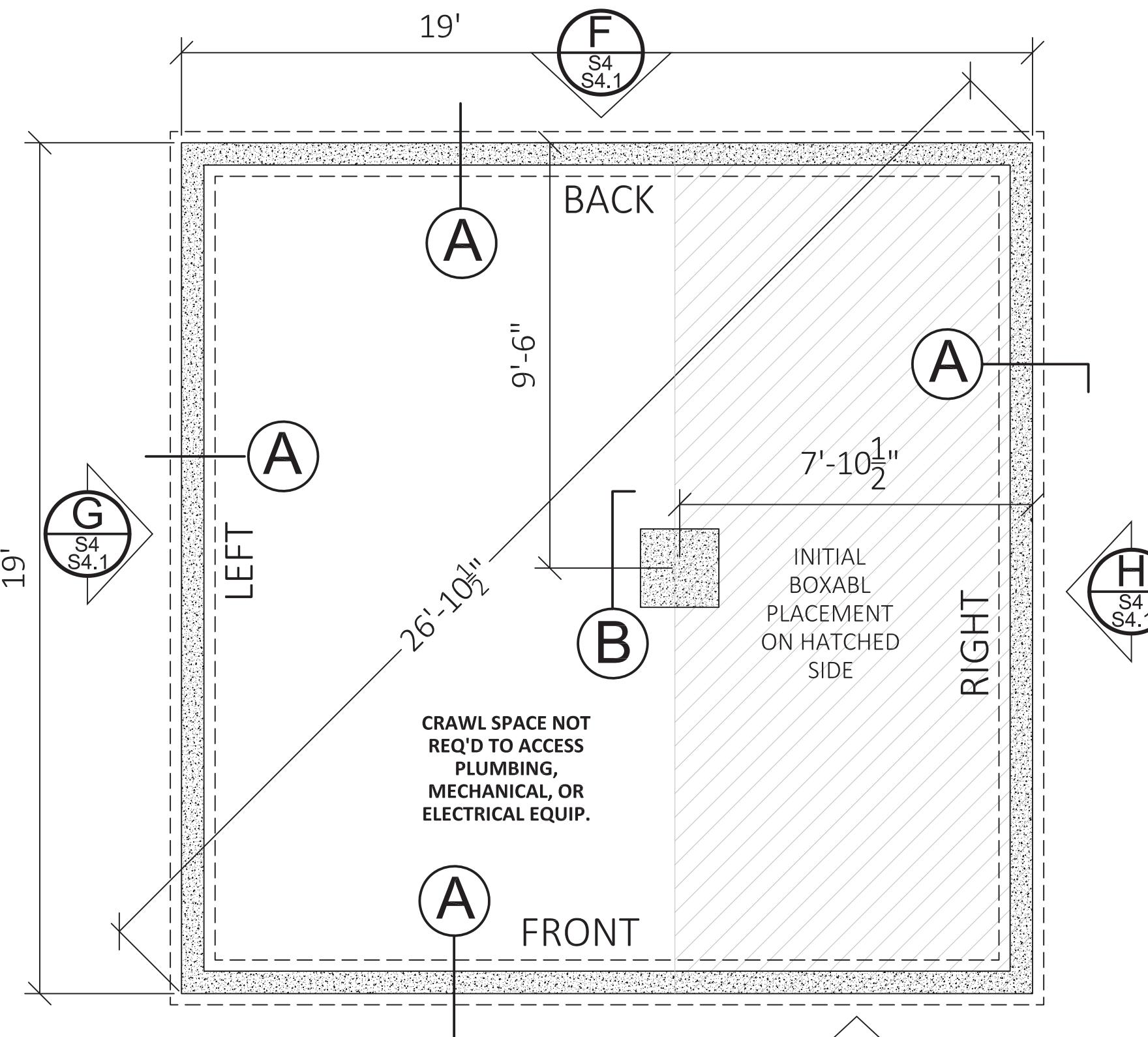
## NOTES:

NOT FOR USE WITH SOIL SUBJECT TO LIQUIFICATION OR EXPANSION.  
SEE S3.3 FOR EXPANSIVE SOIL FOUNDATION OPTION.

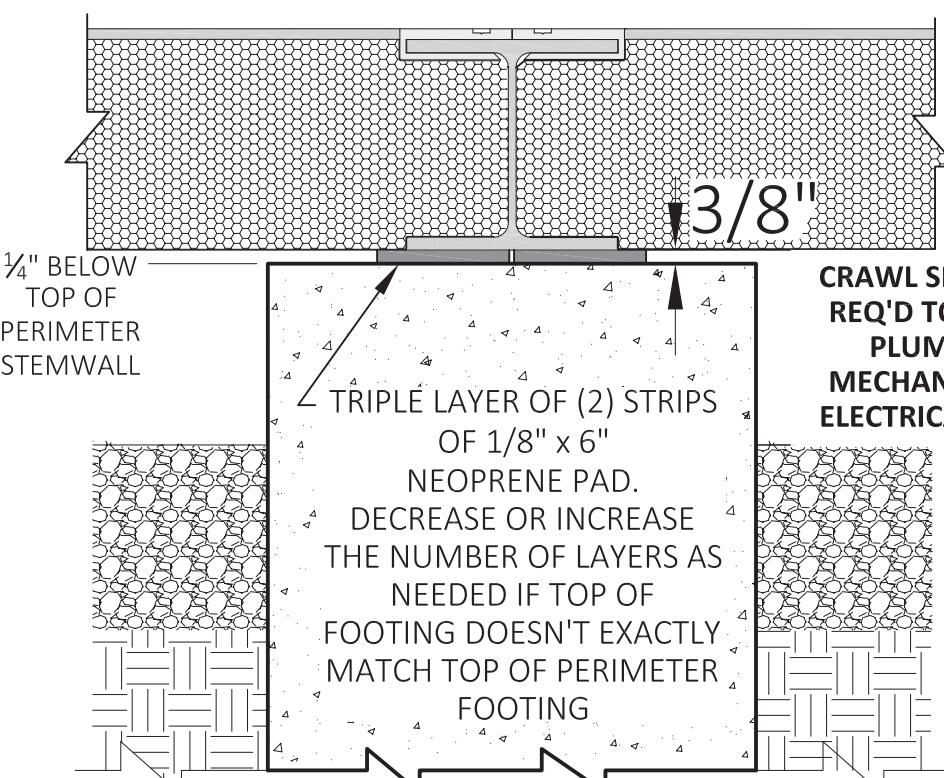
TOP SURFACE OF PERIMETER CONCRETE STEMWALL  
SHALL BE FLAT AND LEVEL TO WITHIN  $\frac{1}{8}$ " BETWEEN ANY  
TWO POINTS AROUND THE PERIMETER.

PERIMETER & DIAGONAL DIMENSIONS HAVE NO MARGIN FOR ERROR FOR ANCHORAGE HARDWARE TO WORK AS INTENDED

CONCRETE TO HAVE A MIN. 28 DAY COMPRESSIVE STRENGTH,  $f'_c = 2,500$  psi.

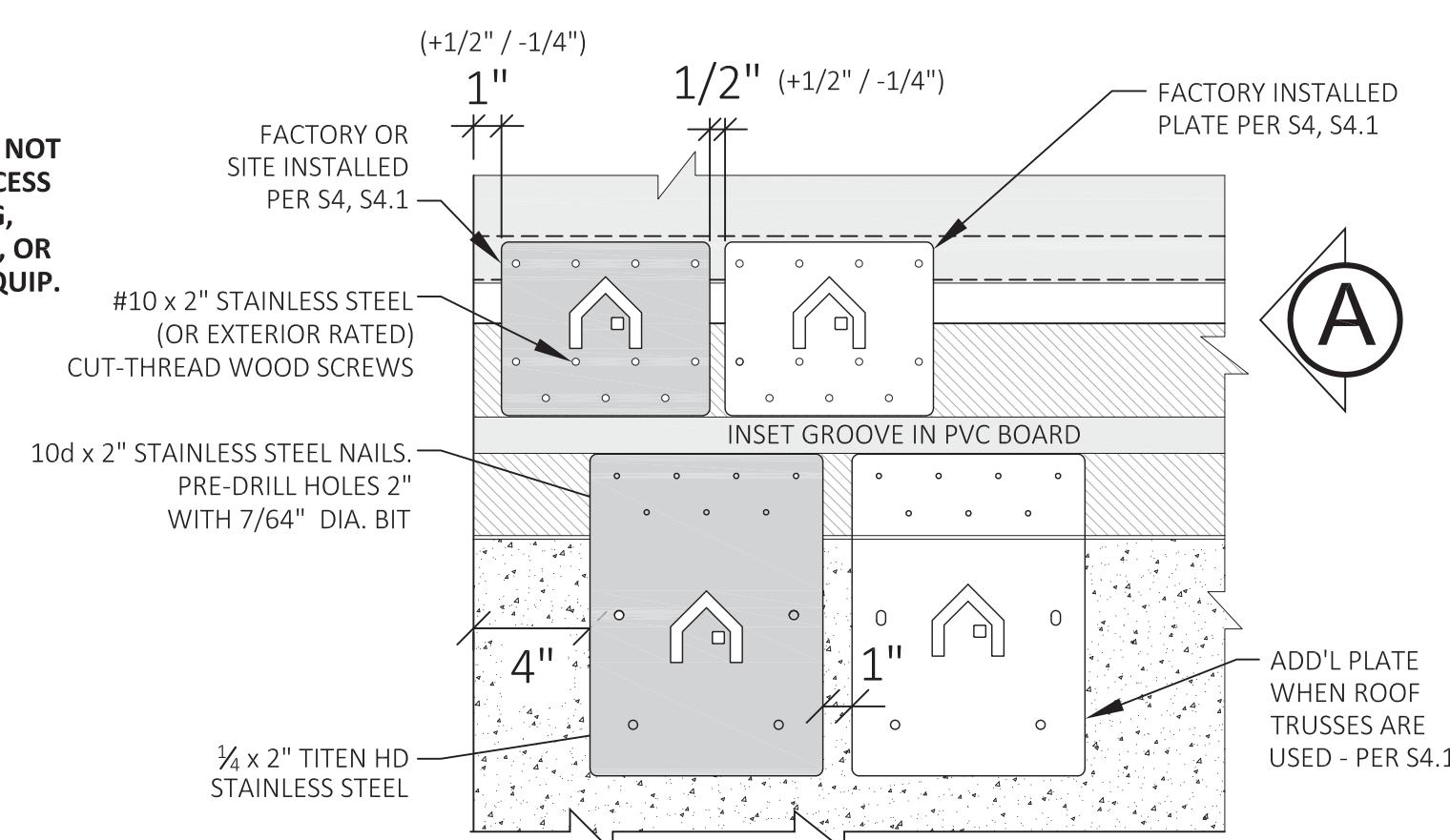


## FOUNDATION PLAN

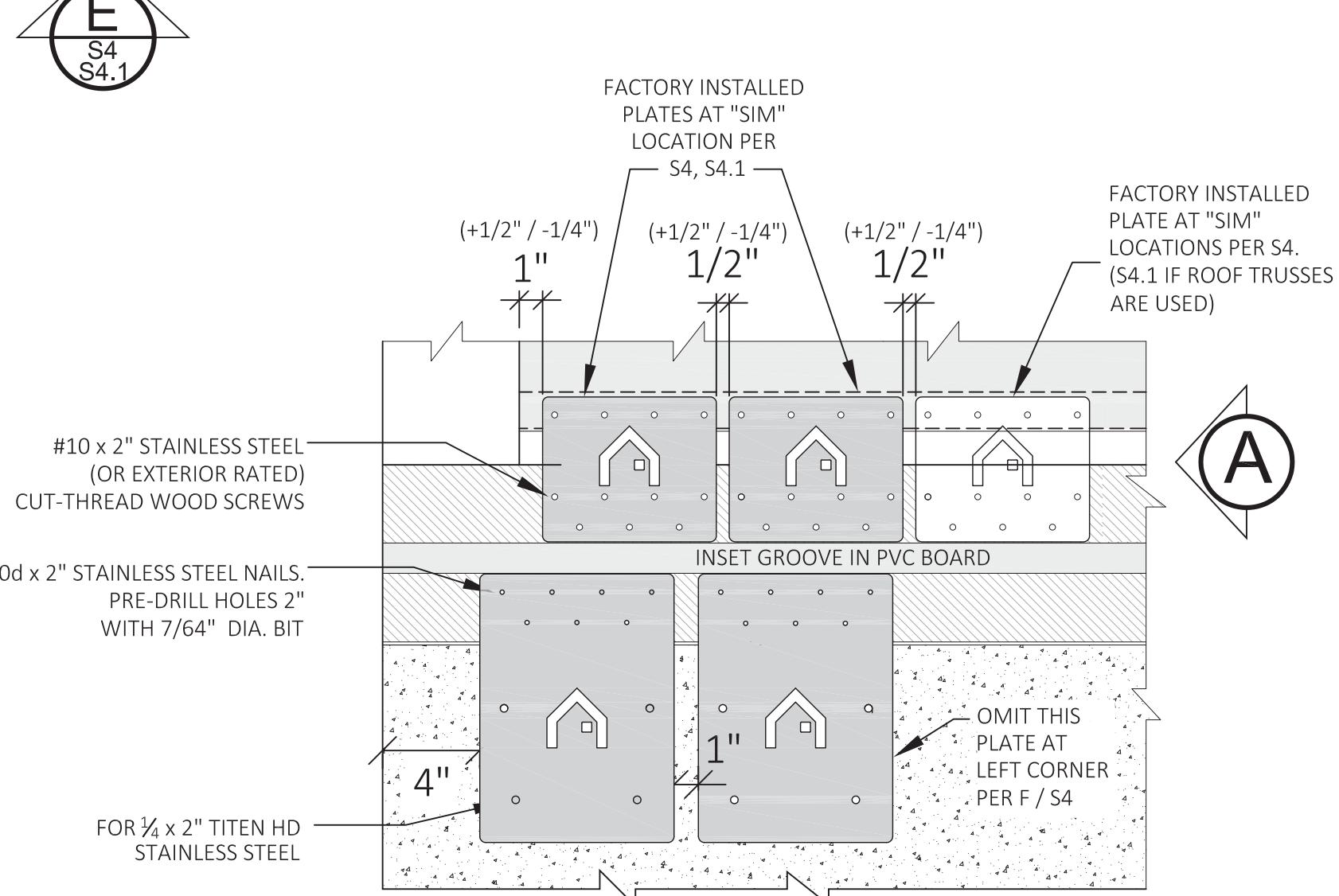


## FOOTING TO BE DESIGNED & BUILT BY OTHERS TO SUPPORT 4,000 LB

**B** INTERIOR BEAM SUPPORT  
SCALE: NONE



**C** HOLD-DOWN'S AT LEFT & RIGHT WALL  
SEE S4 & S4.1 FOR LOCATION REFERENCE



**D** HOLD-DOWN'S AT FRONT & BACK WALL  
SEE S4 & S4.1 FOR LOCATION REFERENCE

DATE:	REV:	DESCRIPTION:

UNITS:	FT-IN	<b>MODEL: 2 DOOR CASITA</b>	<b>BOX</b> 5345 EA NORTH
SHEET FORMAT:	ARCH C		
SHEET SCALE:	NONE		
CREATED BY:	MN		
RELEASE DATE:	5/07/2024		
SHEET:	S3	<b>MODEL #:</b> BXB-000009	+1(702) 50

# CONNECTIONS TO CONCRETE STEMWALLS



# CONCRETE SLAB FOUNDATION OPTION

## DESIGNED BY OTHERS

SEE S3.3 FOR FOUNDATION CONCEPT FOR EXPANSIVE SOIL CONDITIONS

### NOTES:

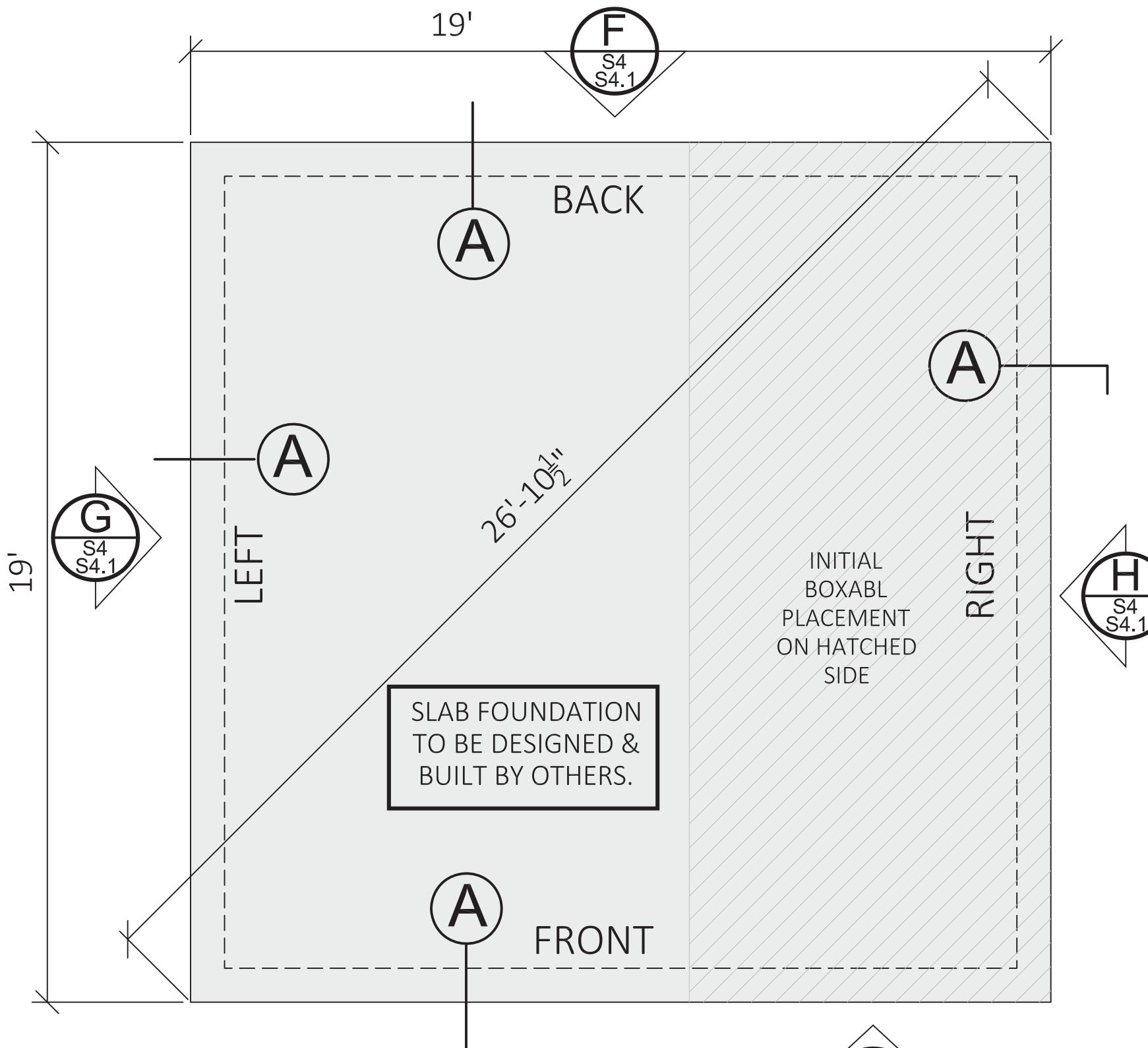
NOT FOR USE WITH SOIL SUBJECT TO LIQUIFICATION.

SEE S3.3 FOR EXPANSIVE SOIL FOUNDATION OPTION.

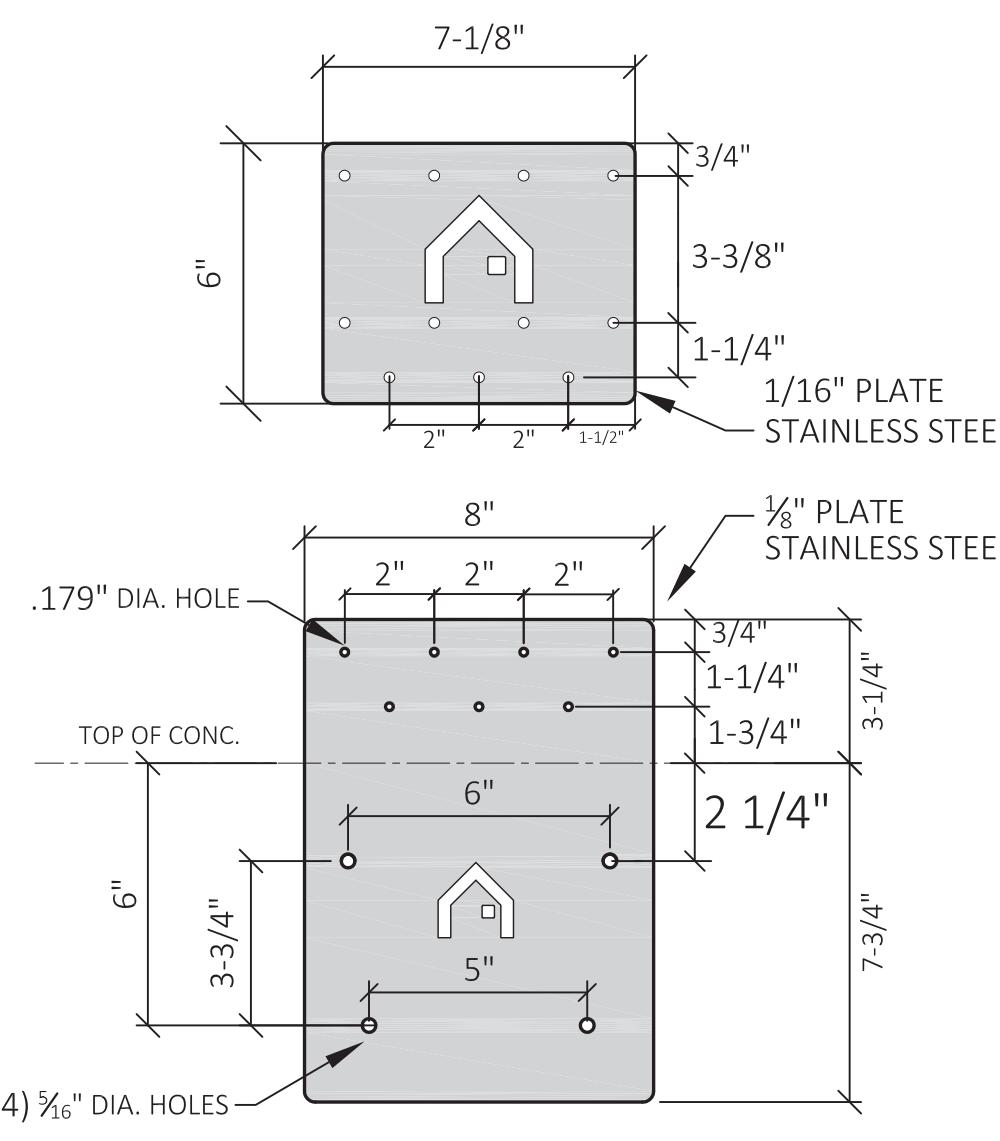
TOP SURFACE OF CONCRETE SHALL BE FLAT AND LEVEL TO WITHIN  $\frac{1}{8}$ " BETWEEN ANY TWO POINTS AROUND THE PERIMETER.

PERIMETER & DIAGONAL DIMENSIONS HAVE NO MARGIN FOR ERROR FOR ANCHORAGE HARDWARE TO WORK AS INTENDED.

CONCRETE TO HAVE A MIN. 28 DAY COMPRESSIVE STRENGTH,  $f'_c = 2,500$  psi.



### FOUNDATION PLAN



SEE DETAILS C & D ON S3  
FOR FASTENER INFO  
& CORNER LOCATION  
OF ANCHOR PLATES.  
SEE ALSO S4 OR S4.1  
FOR ADD'L LOCATION INFO

DATE:	REV:	DESCRIPTION:

CONNECTIONS TO THICKENED SLAB EDGE

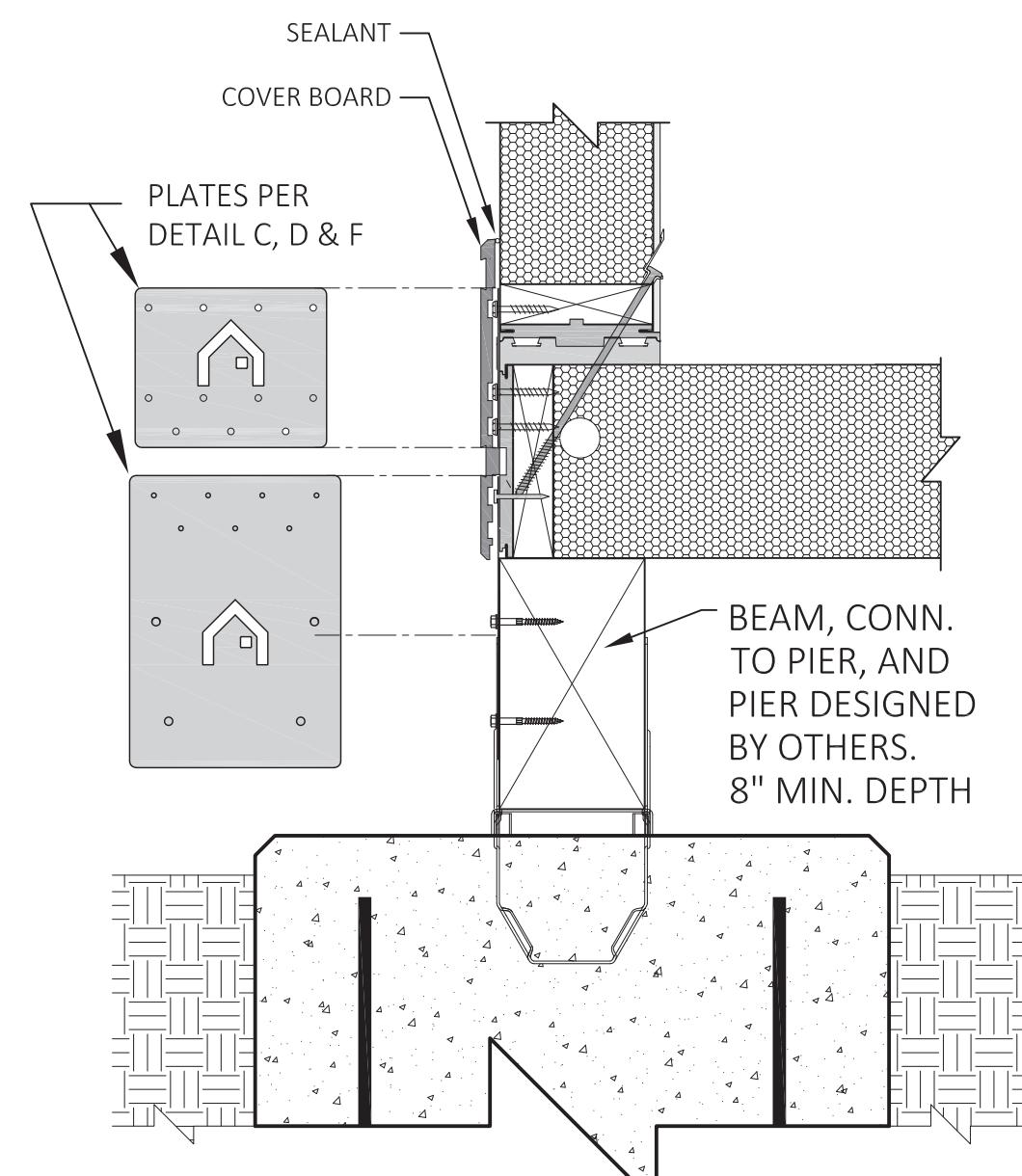
UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY: MN	MODEL #: BXB-000009	+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 1/31/2024		
SHEET: S3.1		



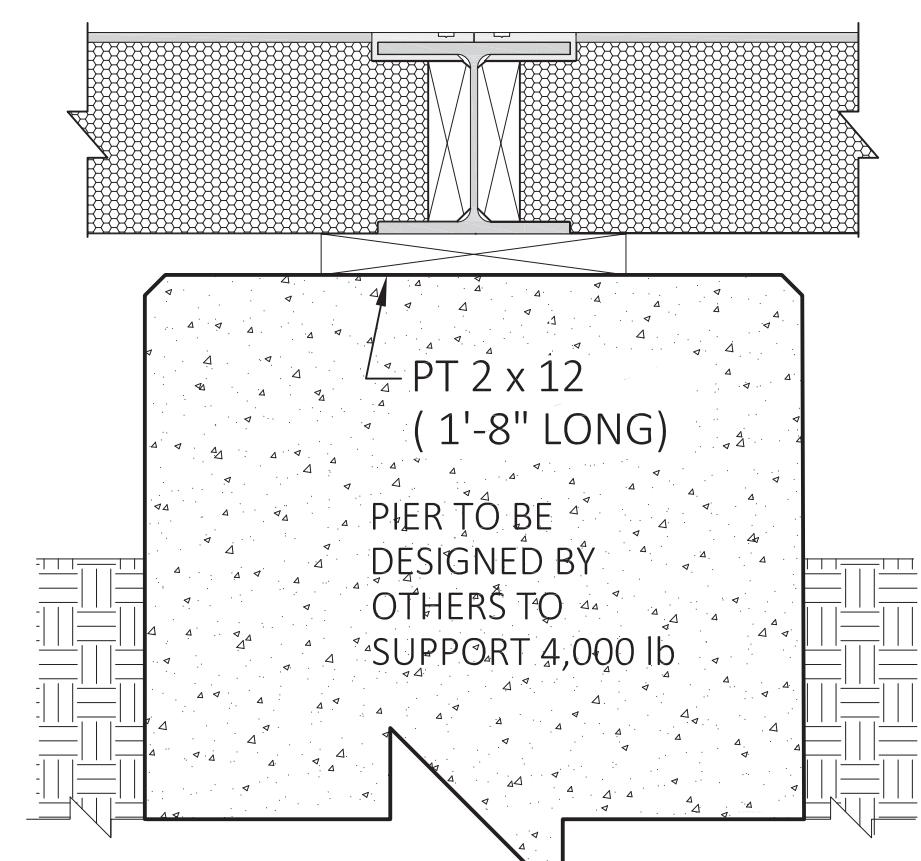
# CONCRETE PIER & WOOD BEAM FOUNDATION OPTION

DESIGNED BY OTHERS

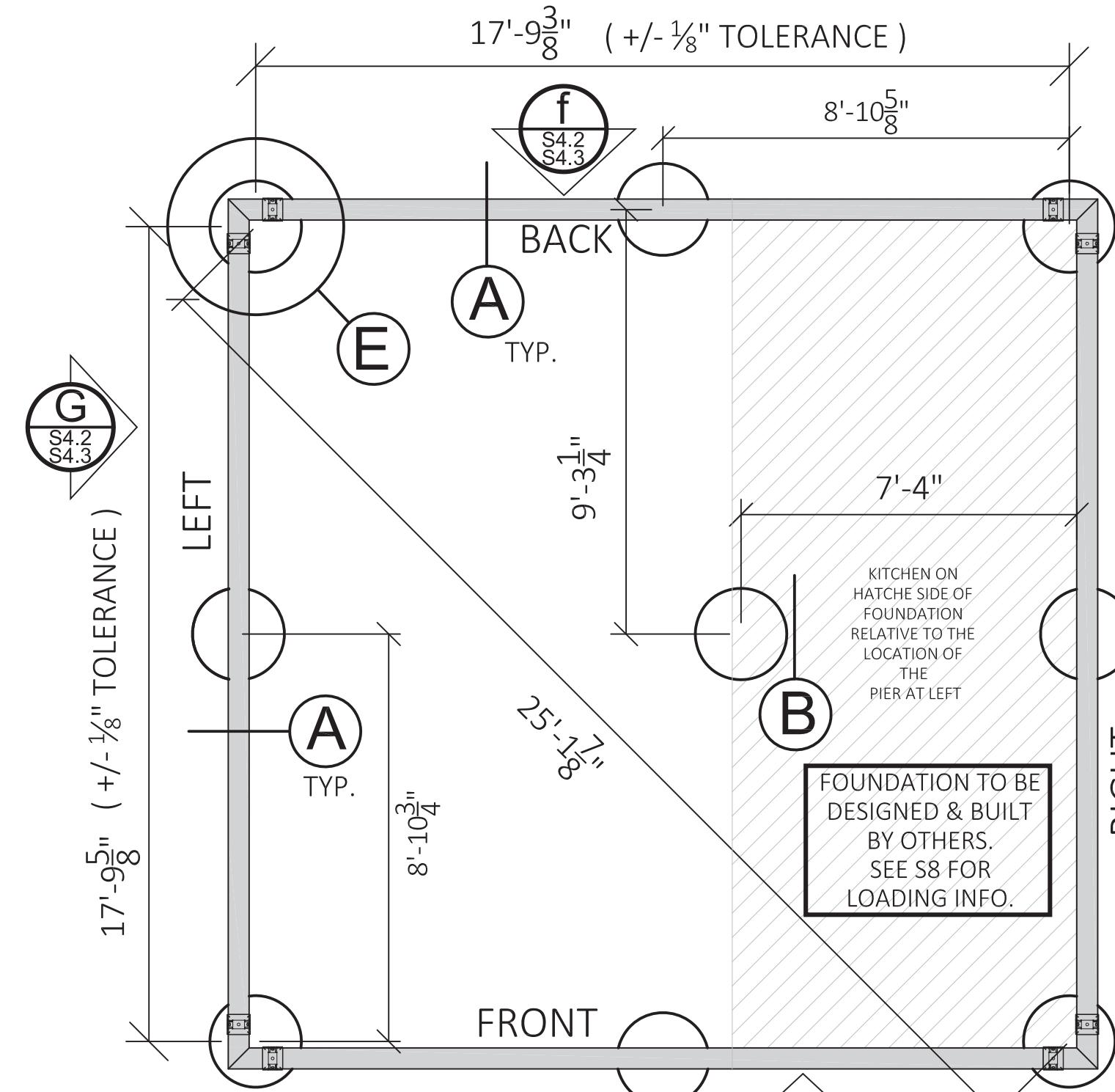
DO NOT USE FOR SOILS SUBJECT TO LIQUIFICATION.  
FOR EXPANSIVE SOILS SEE S3.3.



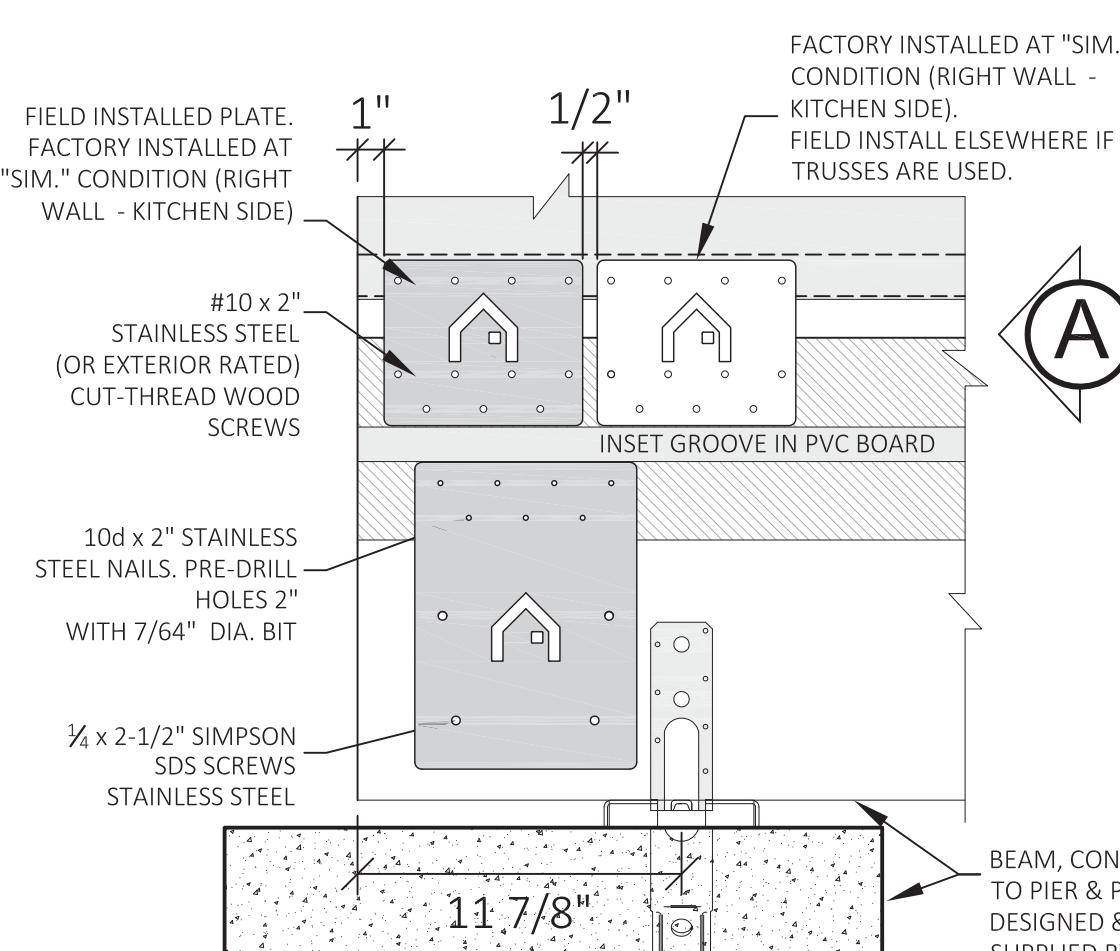
**A** TYPICAL PERIMETER PIER  
SCALE: NONE



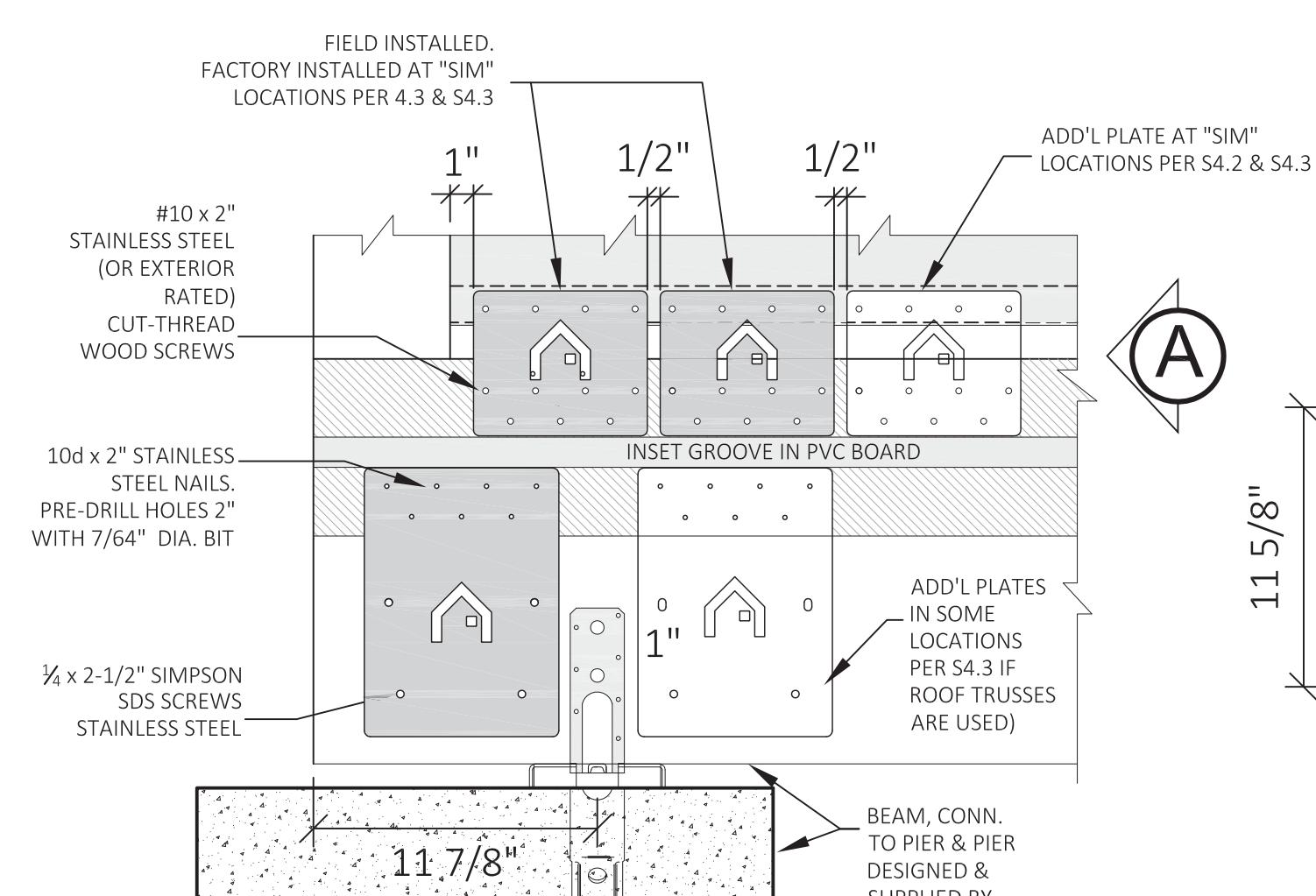
**B** INTERIOR FOOTING  
SCALE: NONE



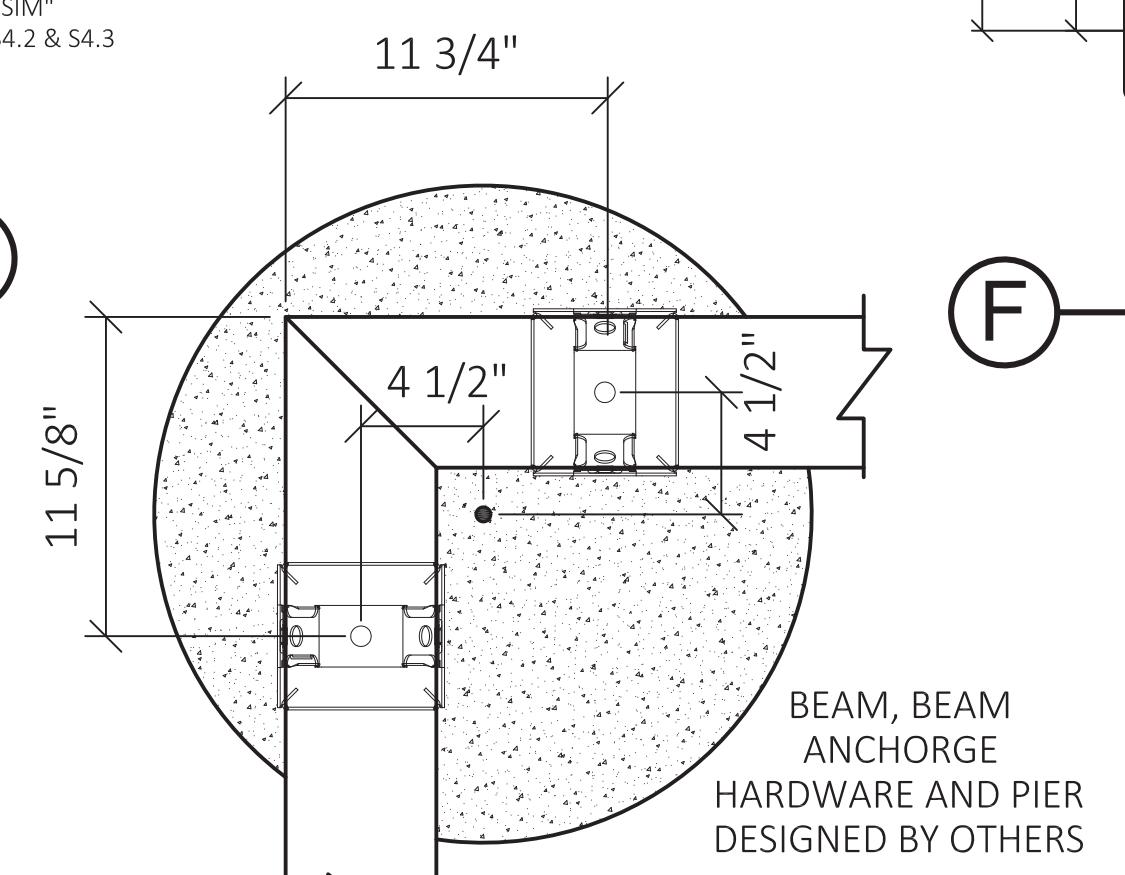
**FOUNDATION PLAN**



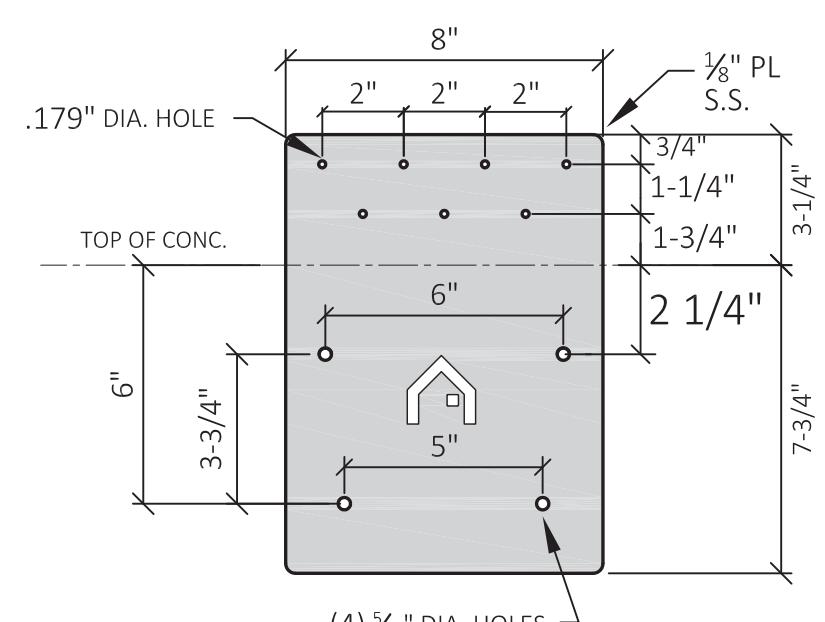
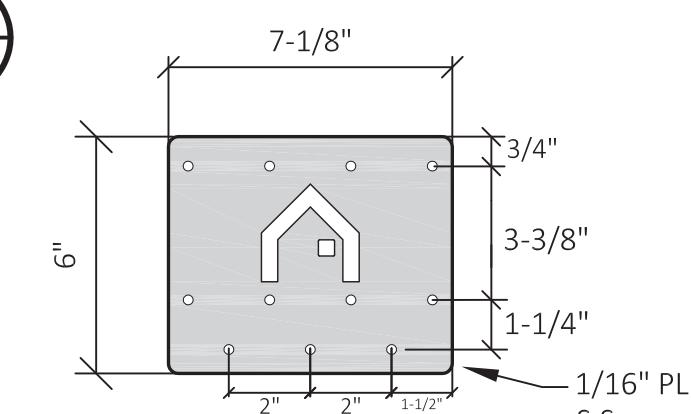
**C** HOLD-DOWN'S AT LEFT & RIGHT WALL  
SEE S4.2 & S4.3 FOR LOCATION REFERENCE



**D** HOLD-DOWN'S AT FRONT & BACK WALL  
SEE S4.2 & S4.3 FOR LOCATION REFERENCE



**E** CORNER PIERS  
SCALE: NONE



## CONNECTIONS TO WOOD SUPPORTS

DATE:	REV:	DESCRIPTION:

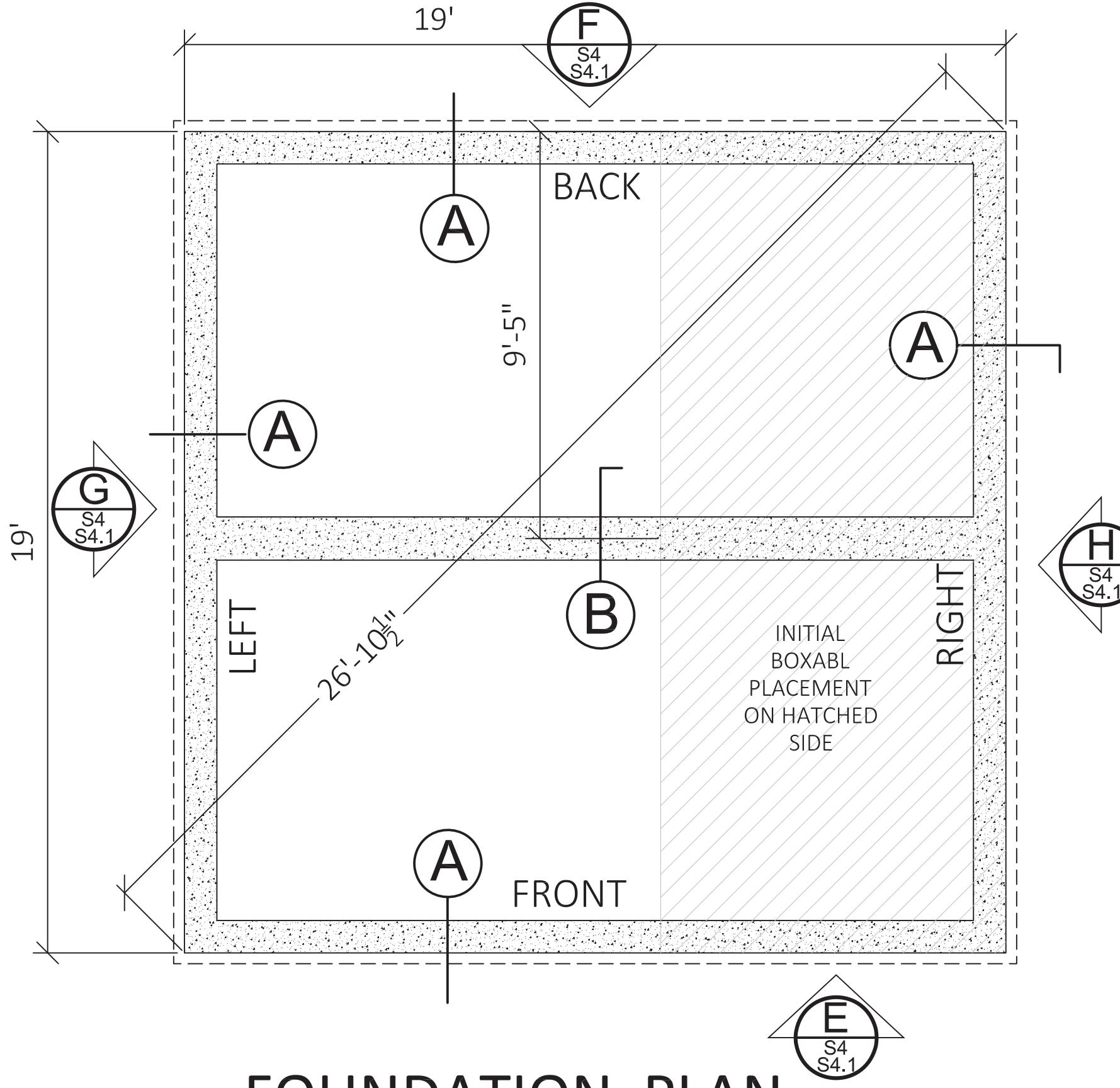
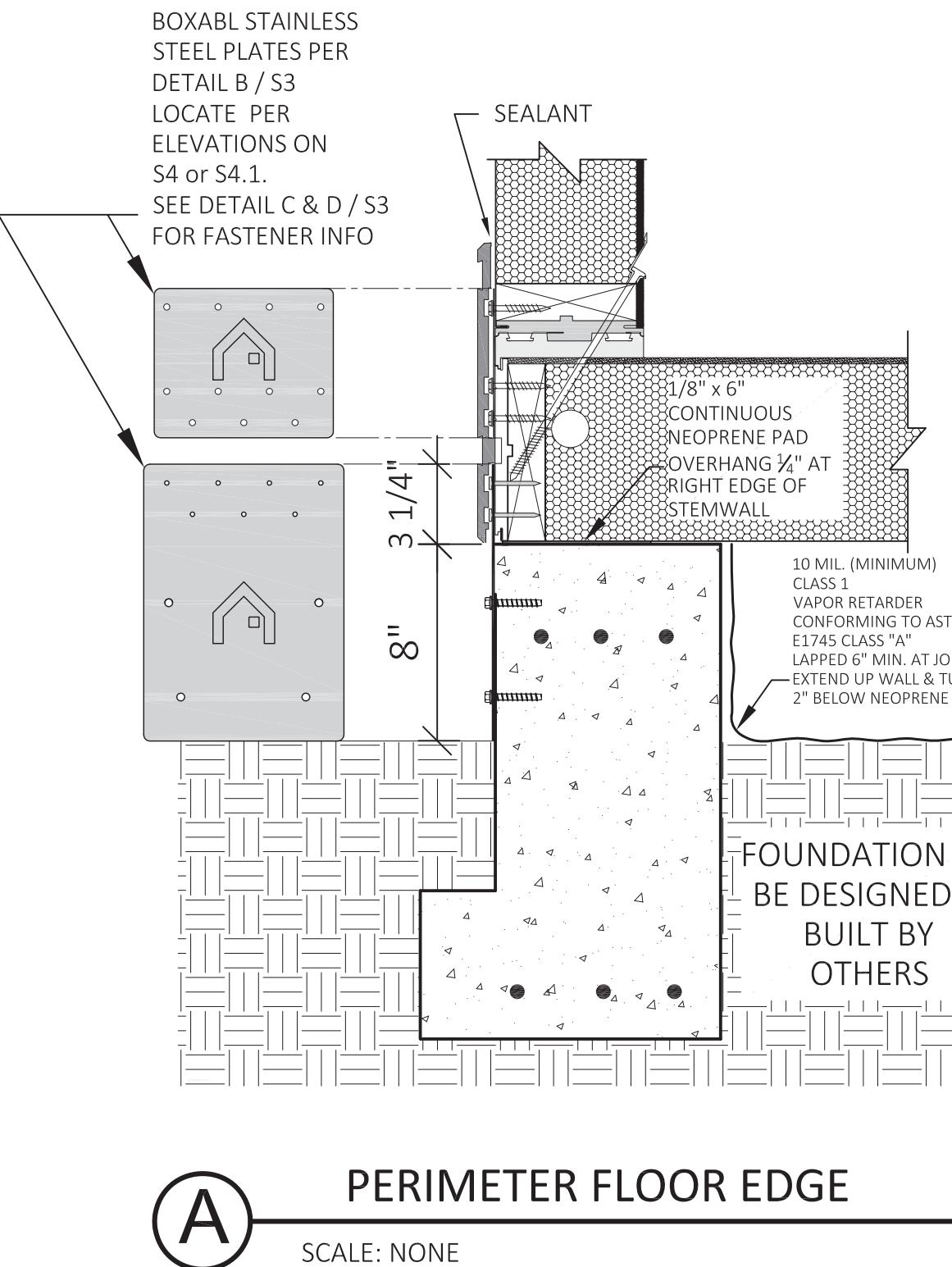
UNITS: FT-IN	MODEL: 2 DOOR CASITA
SHEET FORMAT: ARCH C	
SHEET SCALE: NONE	
CREATED BY: MN	
RELEASE DATE: 1/31/2024	
SHEET: S3.2	

BOXABL INC.  
5345 EAST NORTH BELT ROAD  
NORTH LAS VEGAS, NV 89115, USA  
+1(702) 500-9000 HELLO@BOXABL.COM

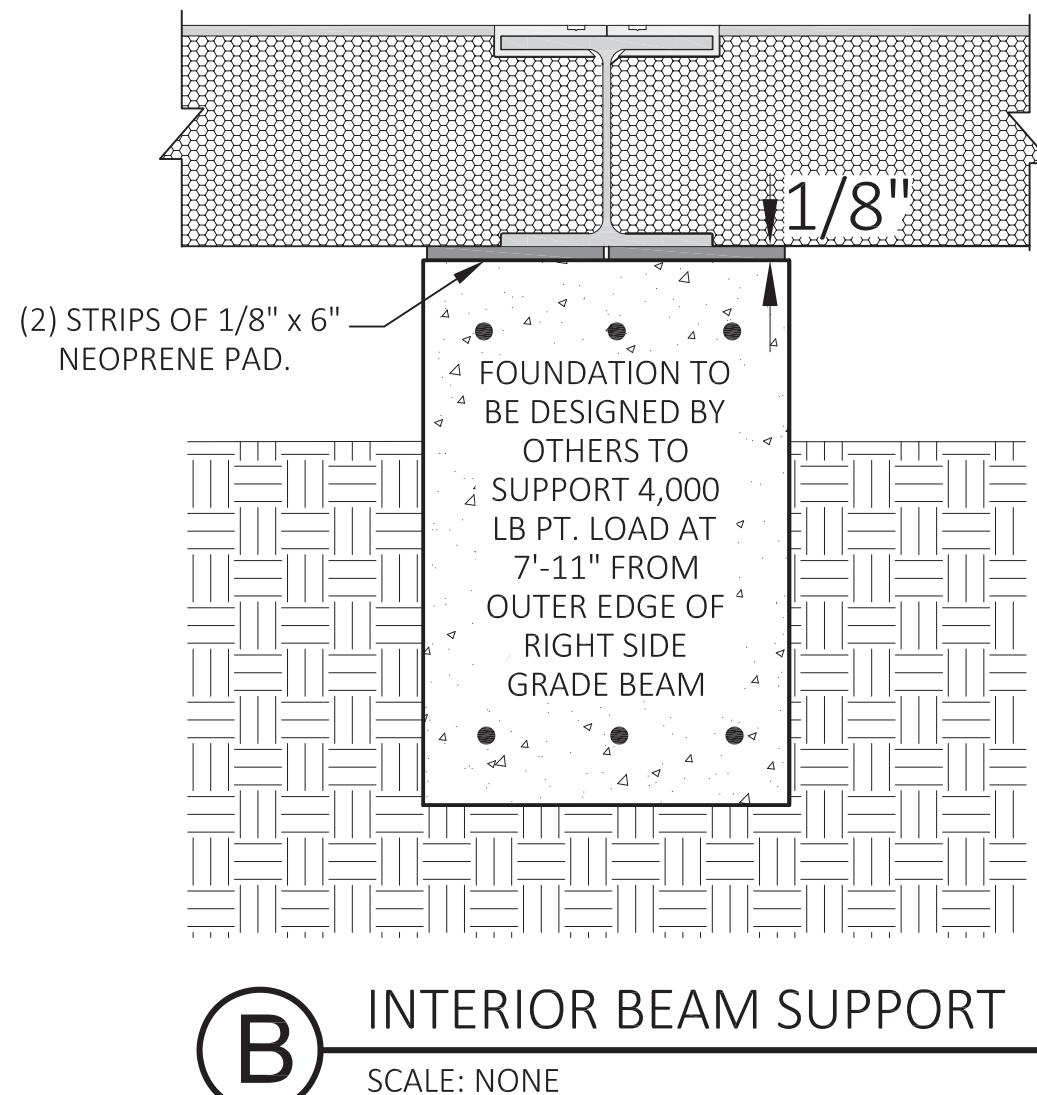


# GRADE BEAM OPTION

DESIGNED BY OTHERS.  
FOR EXPANSIVE SOIL  
CONDITIONS



## FOUNDATION PLAN



### EXPANSIVE SOIL NOTES:

MANY FOUNDATION OPTIONS ARE AVAILABLE TO DEAL WITH EXPANSIVE SOILS. THE MOST EFFECTIVE BEING THE MOST COSTLY, AND VICE-VERSA. THEREFORE, THE OWNER SHOULD BE INVOLVED IN THE DECISION IN WITH THE CONTRACTOR. RECOMMENDATIONS BY A LOCAL GEOTECHNICAL ENGINEER IS RECOMMENDED, PARTICULARLY IN SEVERE CASES, AND IF STRUCTURE TILTING IS UNACCEPTABLE.

THE GENERIC DETAILS SHOWN ON THIS SHEET REPRESENT A LOWER COST OPTION. GRADE BEAM DIMENSIONS AND REINFORCEMENT NEED TO BE DESIGNED BY A LICENSED PROFESSIONAL STRUCTURAL ENGINEER. THIS OPTION DOES NOT PREVENT THE BOXABL CASITA FROM TILTING CAUSED BY DIFFERENTIAL SOIL EXPANSION - THEREFORE IT'S IMPORTANT THAT PLUMBING LINES CAN ACCOMODATE MOVEMENT, AND PLUMBING CONNECTIONS ARE FLEXIBLE TO ACCOMODATE MOVEMENT. SEE PLUMBING DRAWINGS (BY OTHERS) FOR DESIGN MEASURES TO ACCOMODATE EXPANSIVE SOIL.

IF TILTING IS NOT ACCEPTABLE, THE GRADE BEAMS WILL NEED TO BE ANCHORED TO 6 TO 8 VERTICAL MOVEMENT-RESISTING CONCRETE OR HELICAL PIERS WITH THE GRADE BEAMS POURED OVER A COMPRESSIBLE MATERIAL THAT ACCOMODATES SOIL EXPANSION WITHOUT LOADING THE GRADE BEAMS. THE SPECIFICS OF THESE MEASURES, OR ALTERNATE SYSTEMS, SHOULD BE PROVIDED BY A GEOTECHNICAL ENGINEER AND DESIGNED BY A LICENSED STRUCTURAL ENGINEER.

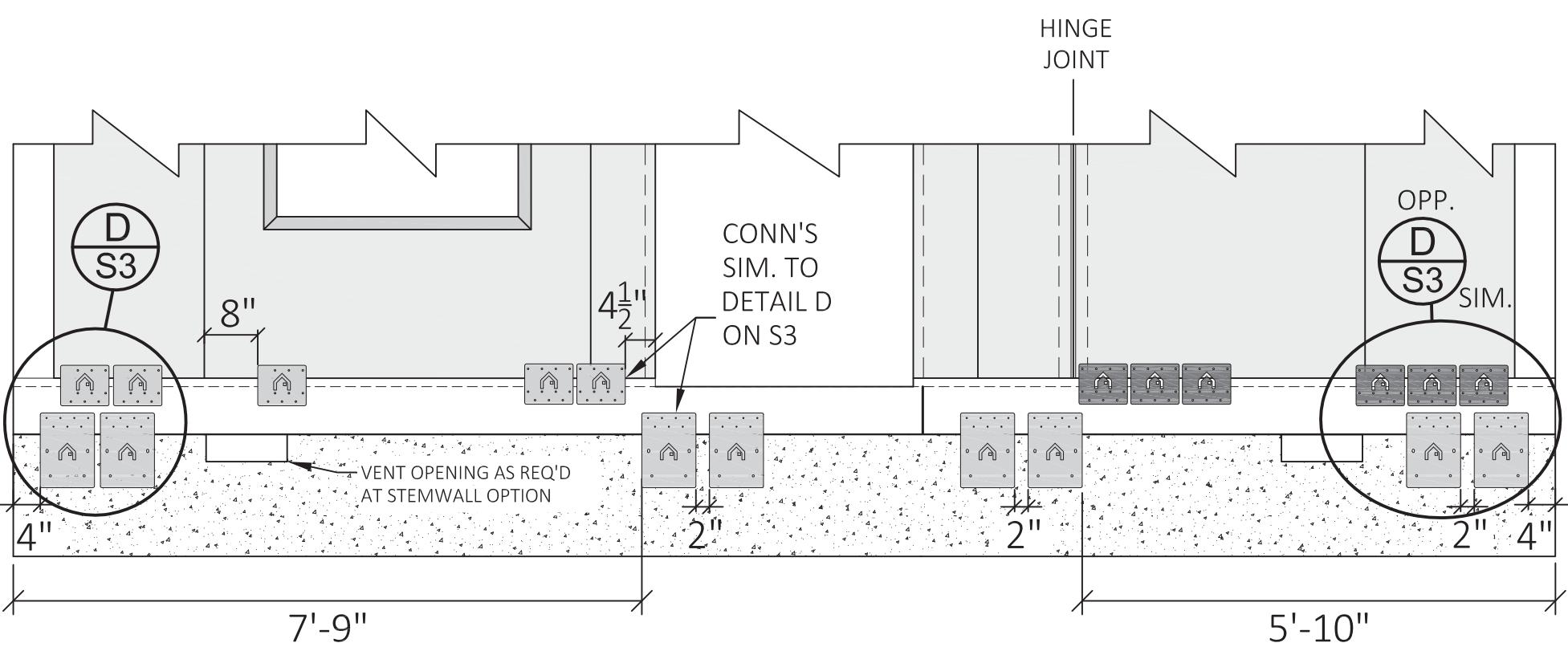
THE FOUNDATION CONCEPT SHOWN IS NOT SUITABLE FOR SOIL SUBJECT TO LIQUFICATION.

DATE:	REV:	DESCRIPTION:

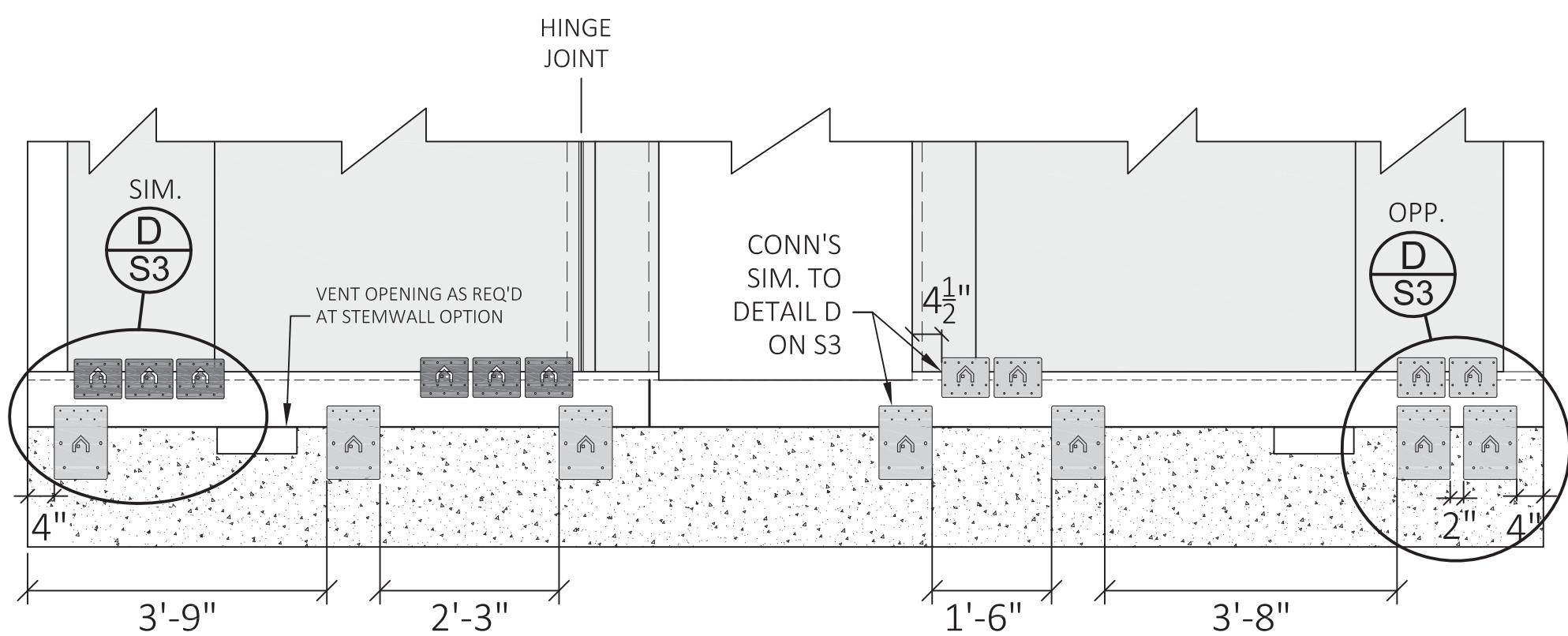
## EXPANSIVE SOIL FOUNDATION CONCEPT

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY: MN	MODEL #: BXB-000009	+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 1/31/2024		
SHEET: S3.3		





**E FRONT WALL**



**F BACK WALL**

**CONCRETE FOUNDATION  
OPTION**

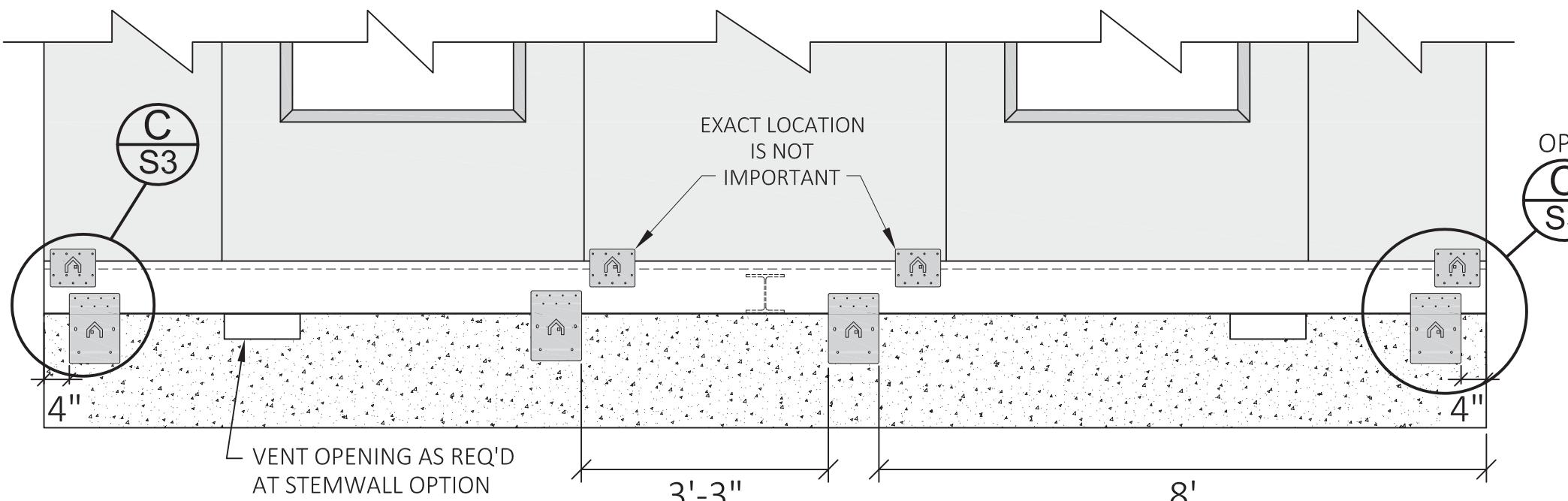
DESIGNED & BUILT BY OTHERS

FACTORY INSTALLED BOXABL PLATES  
(FIELD INSTALL IF ANY ARE MISSING)

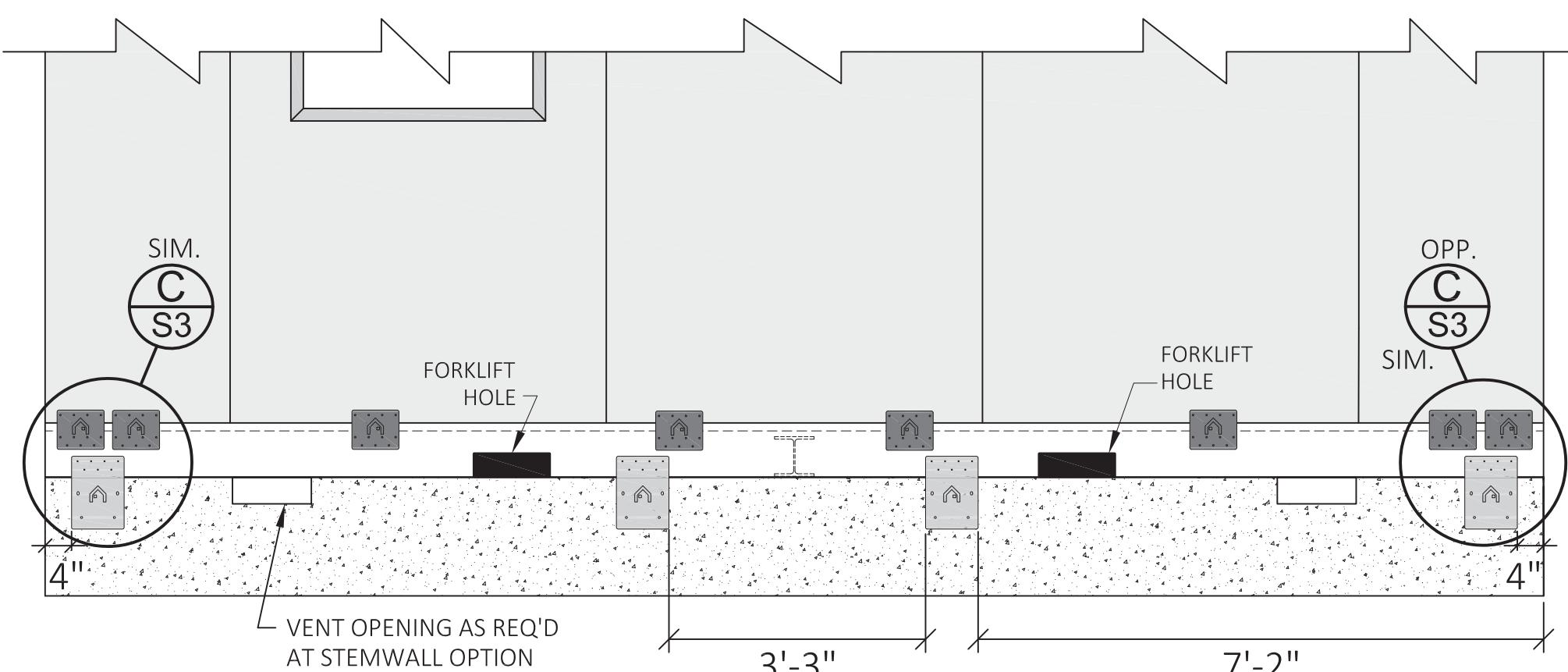
FIELD INSTALLED BOXABL PLATES

**ANCHOR PLATE REQ'TS FOR  
LOW ROOF SLOPE CONDITION**

SEE S4.1 IF TRUSSES ARE USED



**G LEFT WALL**



**H RIGHT WALL**  
KITCHEN SIDE

DATE:	REV:	DESCRIPTION:

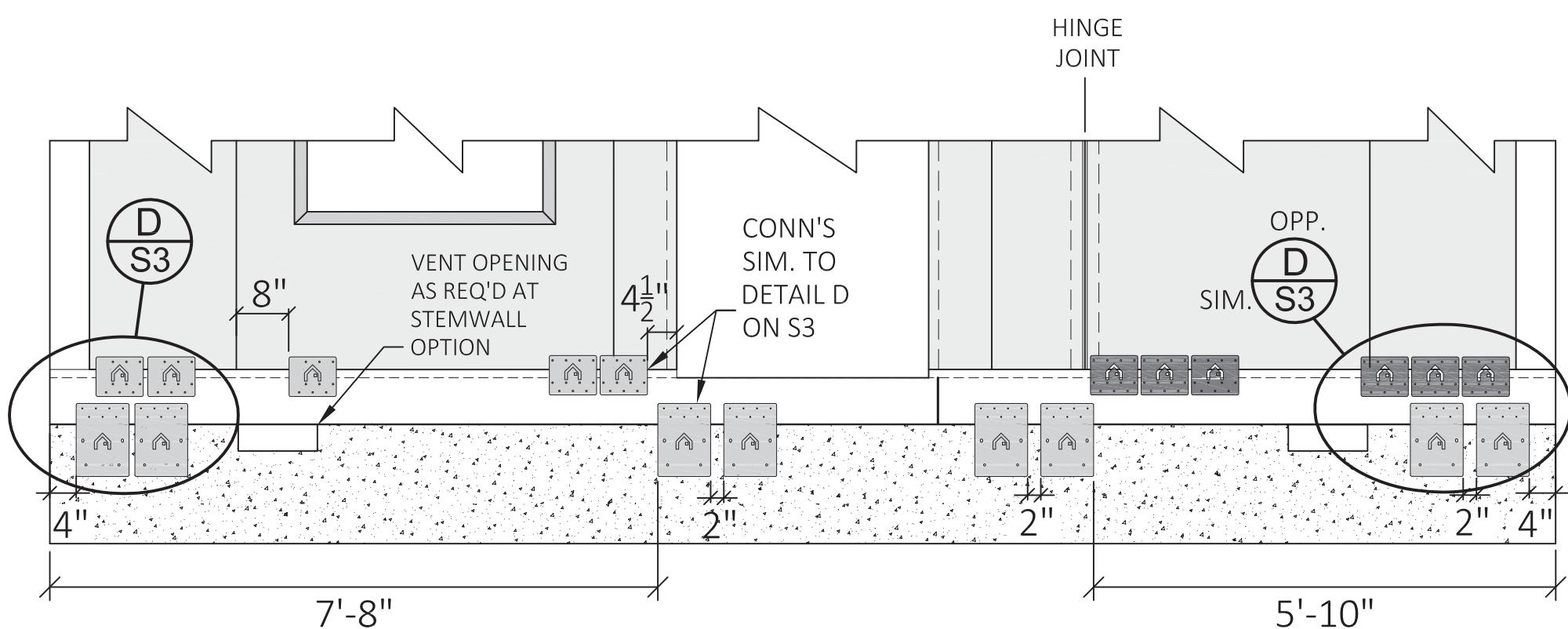
**ANCHOR PL LOCATIONS  
TO CONCRETE  
(TRUSSES NOT USED )**

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
CREATED BY:	MN
RELEASE DATE:	1/31/2024
SHEET:	S4

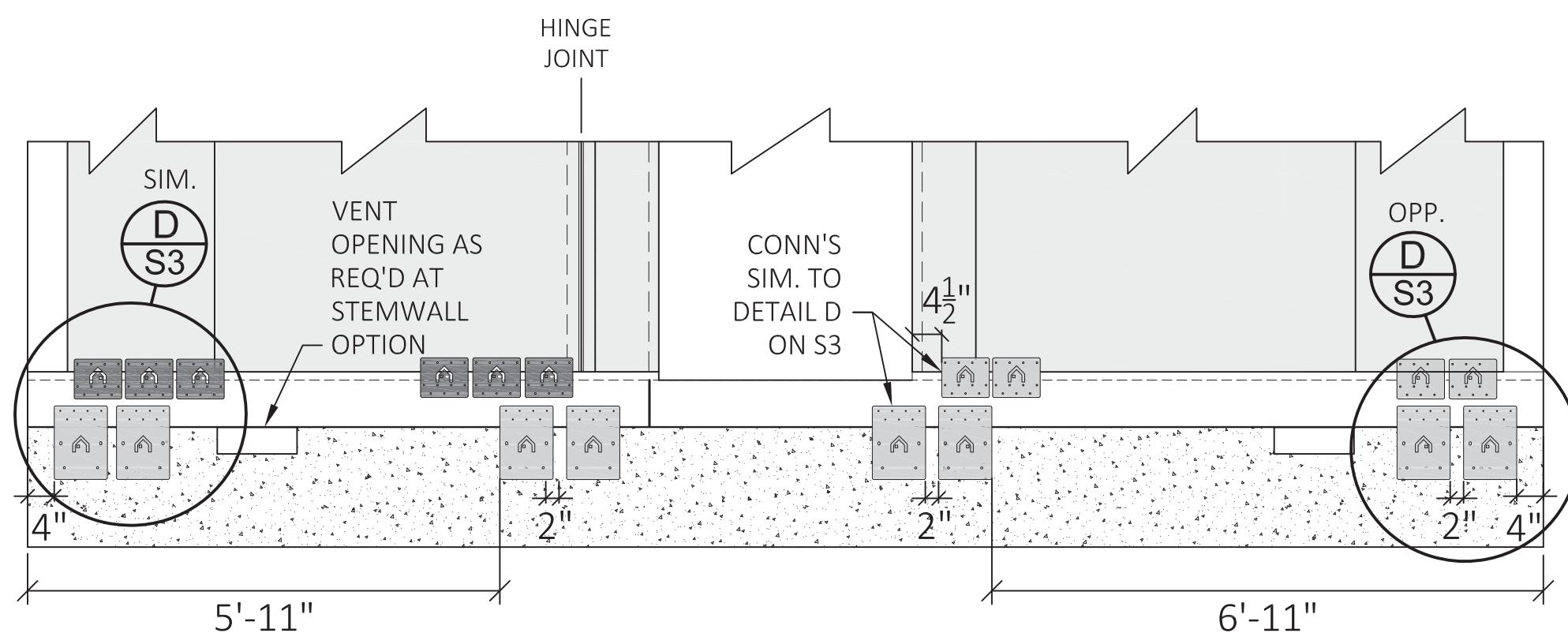
**MODEL: 2 DOOR CASITA**  
**MODEL #: BXB-000009**

**BOXABL INC.**  
5345 EAST NORTH BELT ROAD  
NORTH LAS VEGAS, NV 89115, USA  
+1(702) 500-9000 HELLO@BOXABL.COM





**E FRONT WALL**



**F BACK WALL**

**CONCRETE FOUNDATION  
OPTION**

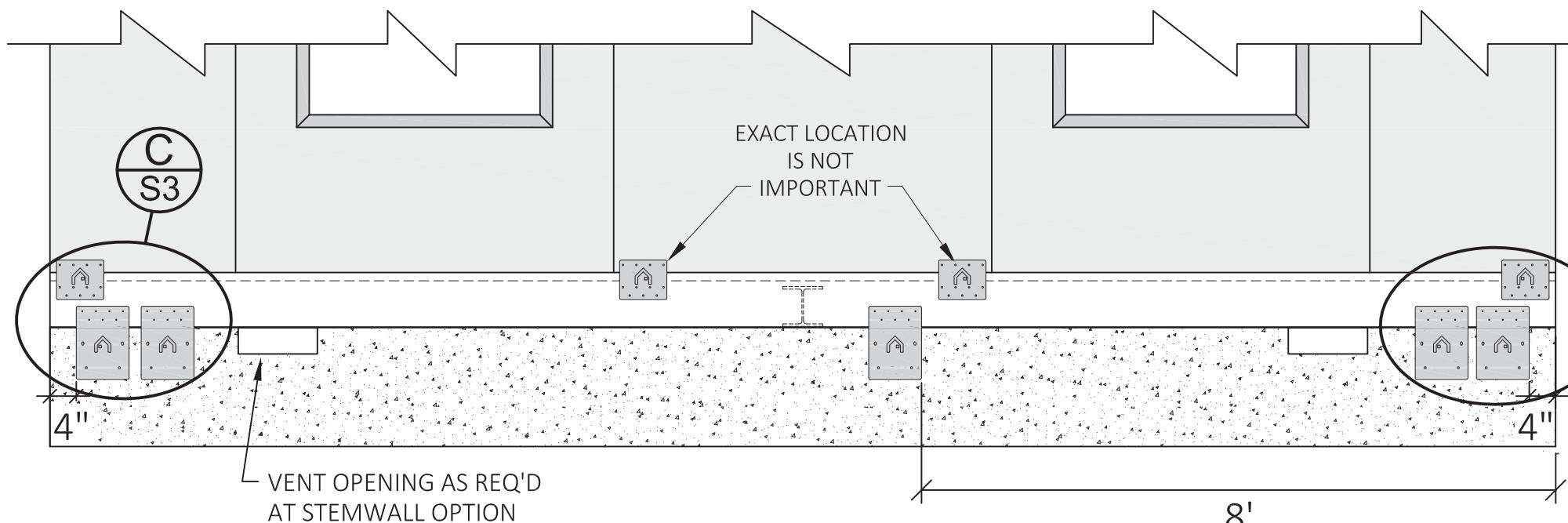
DESIGNED & BUILT BY OTHERS

FACTORY INSTALLED BOXABL PLATES  
(FIELD INSTALL IF ANY ARE MISSING)

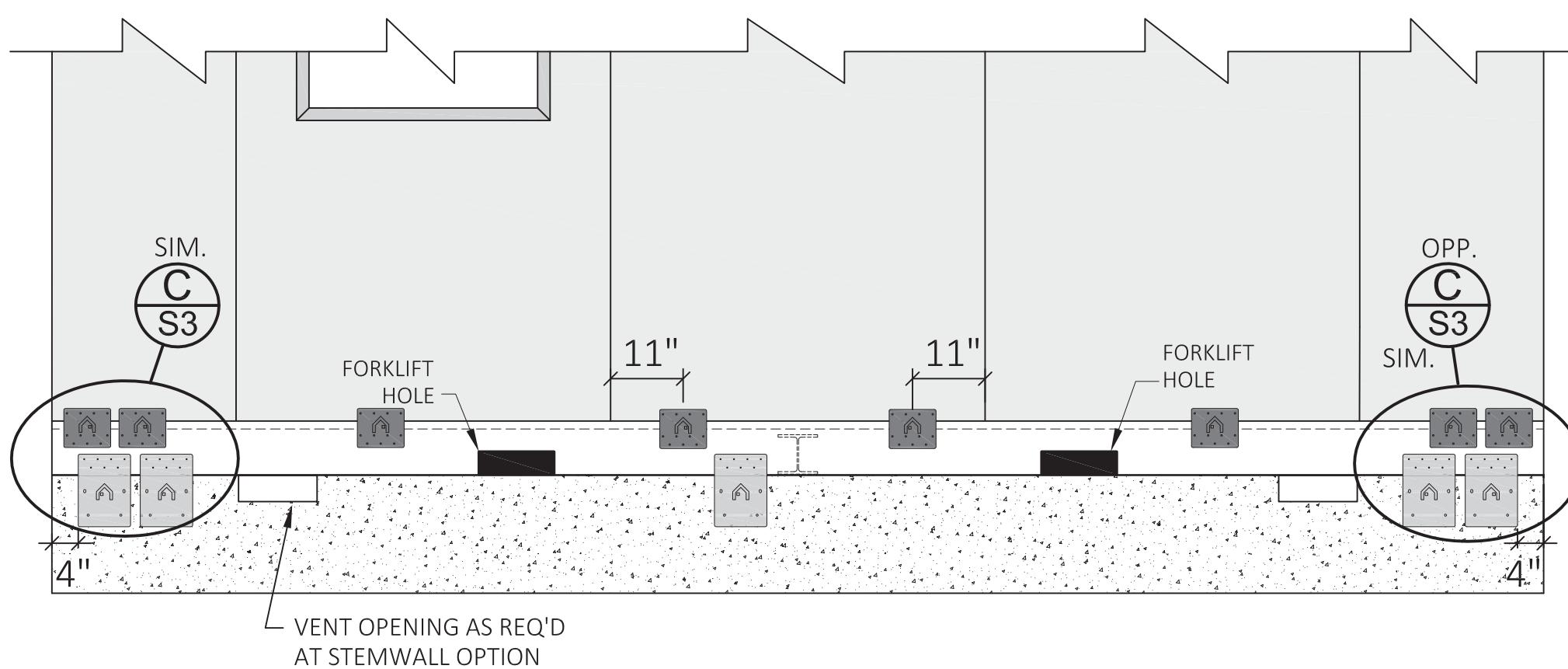
FIELD INSTALLED BOXABL PLATES

**ANCHOR PLATE REQ'TS WHEN ROOF  
TRUSSES or PARAPET IS USED**

SEE S4 IF ROOF TRUSSES ARE NOT USED



**G LEFT WALL**



**H RIGHT WALL**  
KITCHEN SIDE

DATE:	REV:	DESCRIPTION:

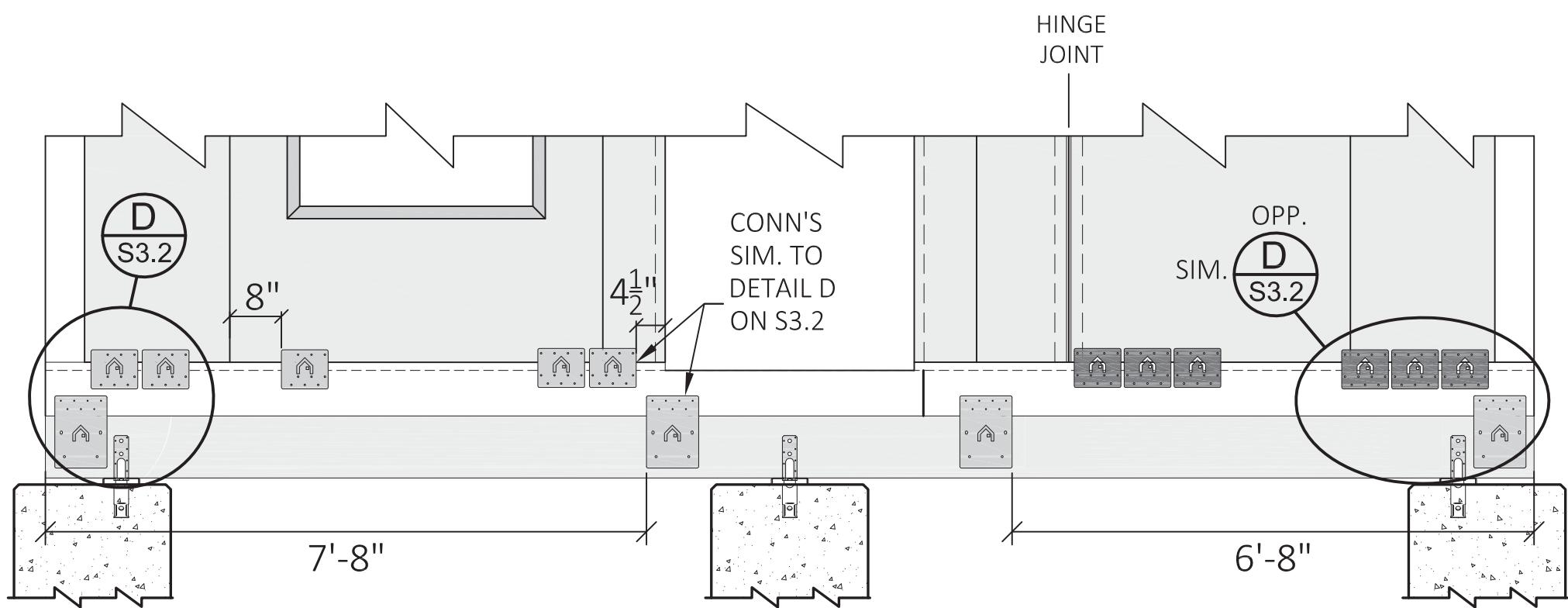
**ANCHOR PL LOCATIONS  
TO CONCRETE  
( TRUSSES USED )**

UNITS:	FT-IN
SHEET FORMAT:	ARCH C
SHEET SCALE:	NONE
RELEASE DATE:	1/31/2024
SHEET:	<b>S4.1</b>

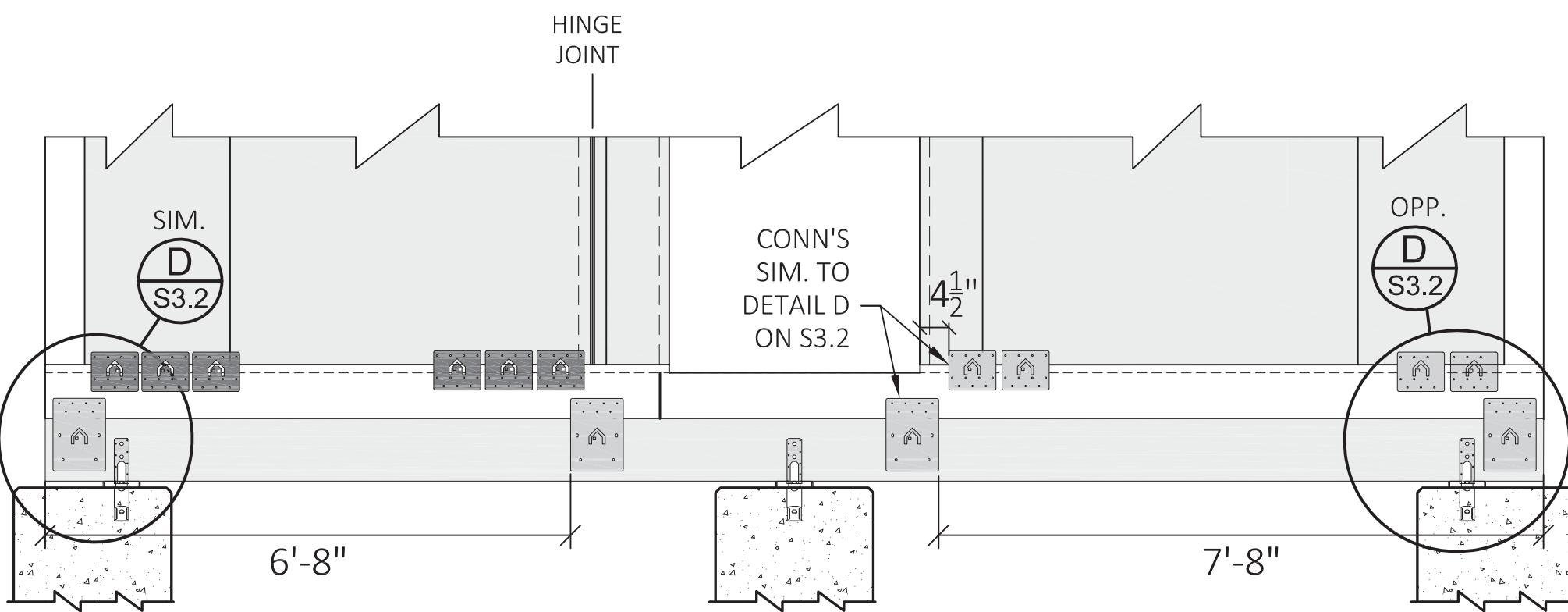
**MODEL: 2 DOOR CASITA**  
**MODEL #: BXB-000009**

**BOXABL INC.**  
5345 EAST NORTH BELT ROAD  
NORTH LAS VEGAS, NV 89115, USA  
+1(702) 500-9000 HELLO@BOXABL.COM





**e** FRONT WALL



**f** BACK WALL

**CONCRETE PIER & BEAM  
OPTION**

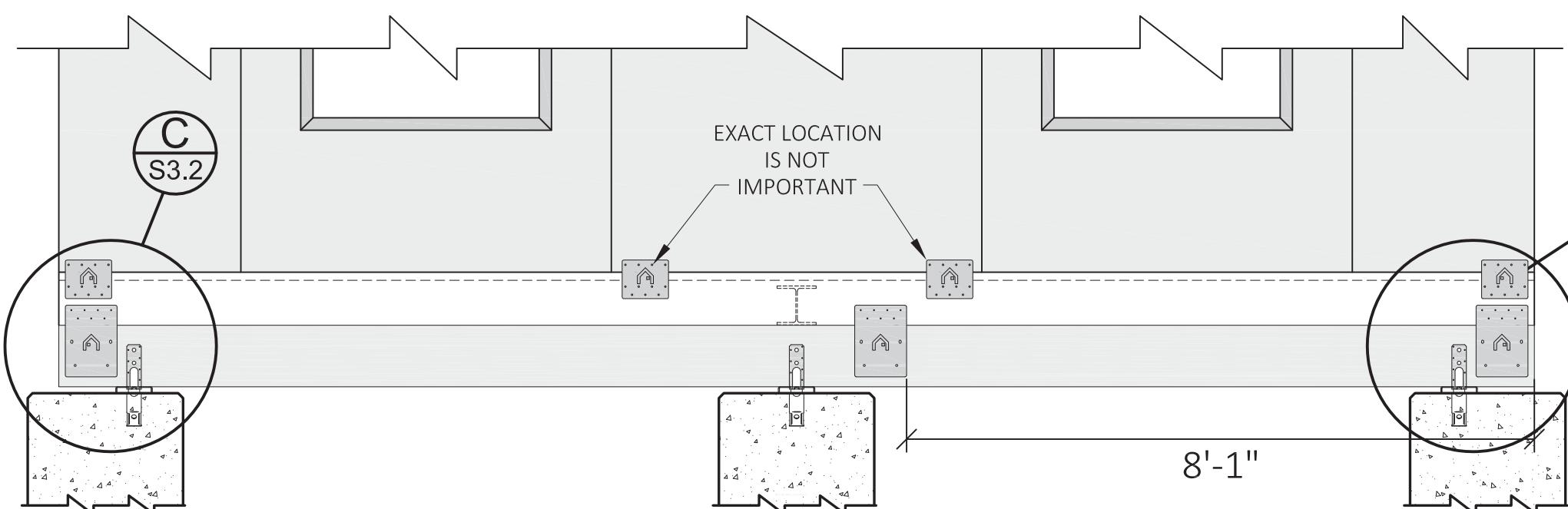
DESIGNED & BUILT BY OTHERS

FACTORY INSTALLED BOXABL PLATES  
(FIELD INSTALL IF ANY ARE MISSING)

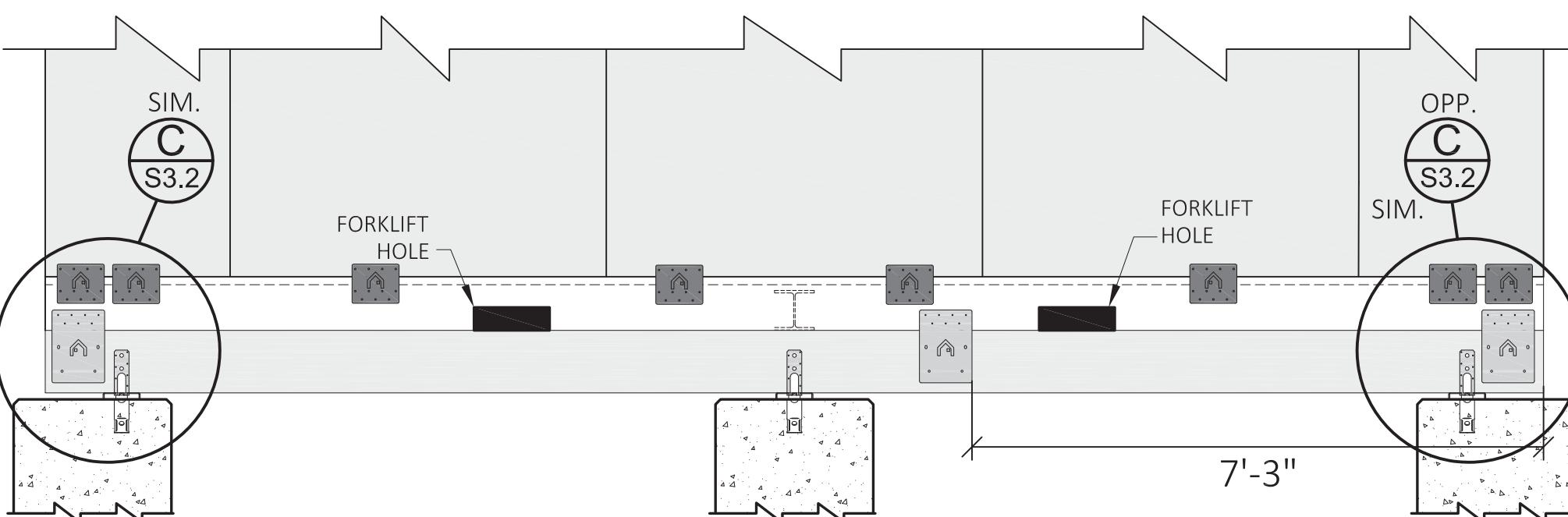
FIELD INSTALLED BOXABL PLATES

**ANCHOR PLATE REQ'TS FOR  
LOW SLOPE ROOF CONDITION**

SEE S4.3 IF TRUSSES ARE USED



**G** LEFT WALL



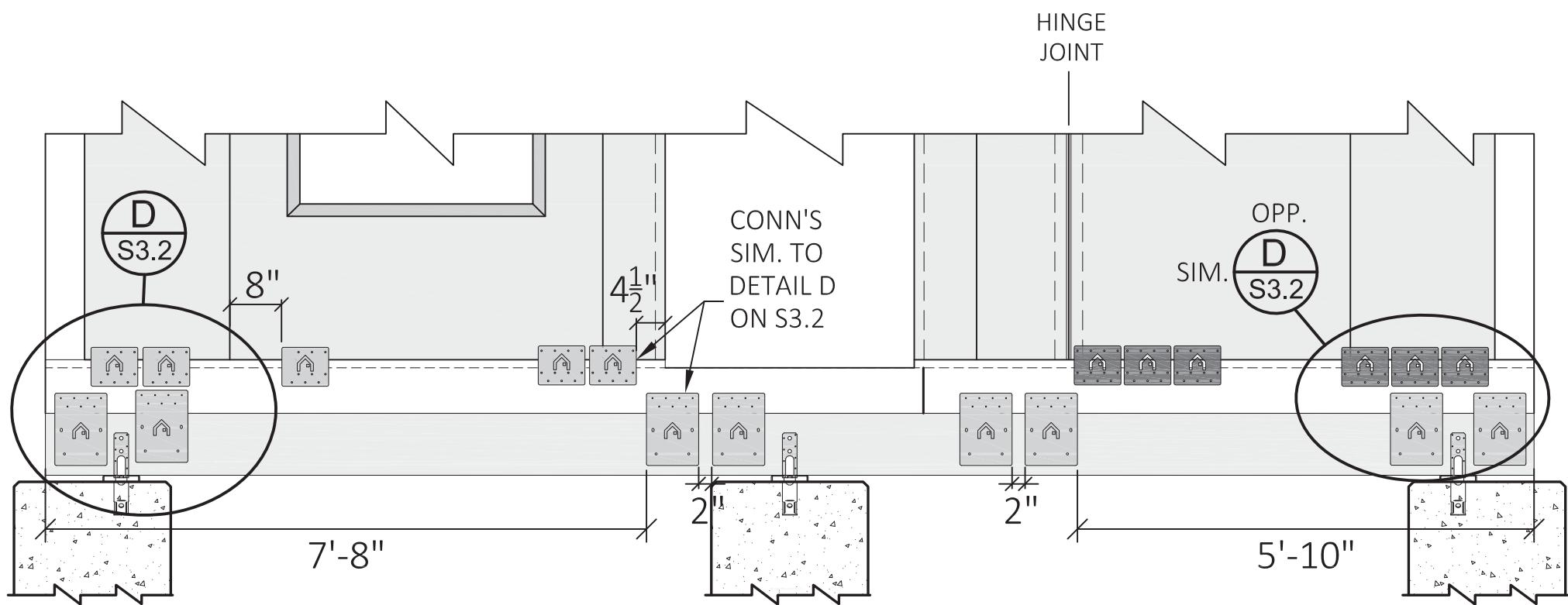
**H** RIGHT WALL  
KITCHEN SIDE

DATE:	REV:	DESCRIPTION:

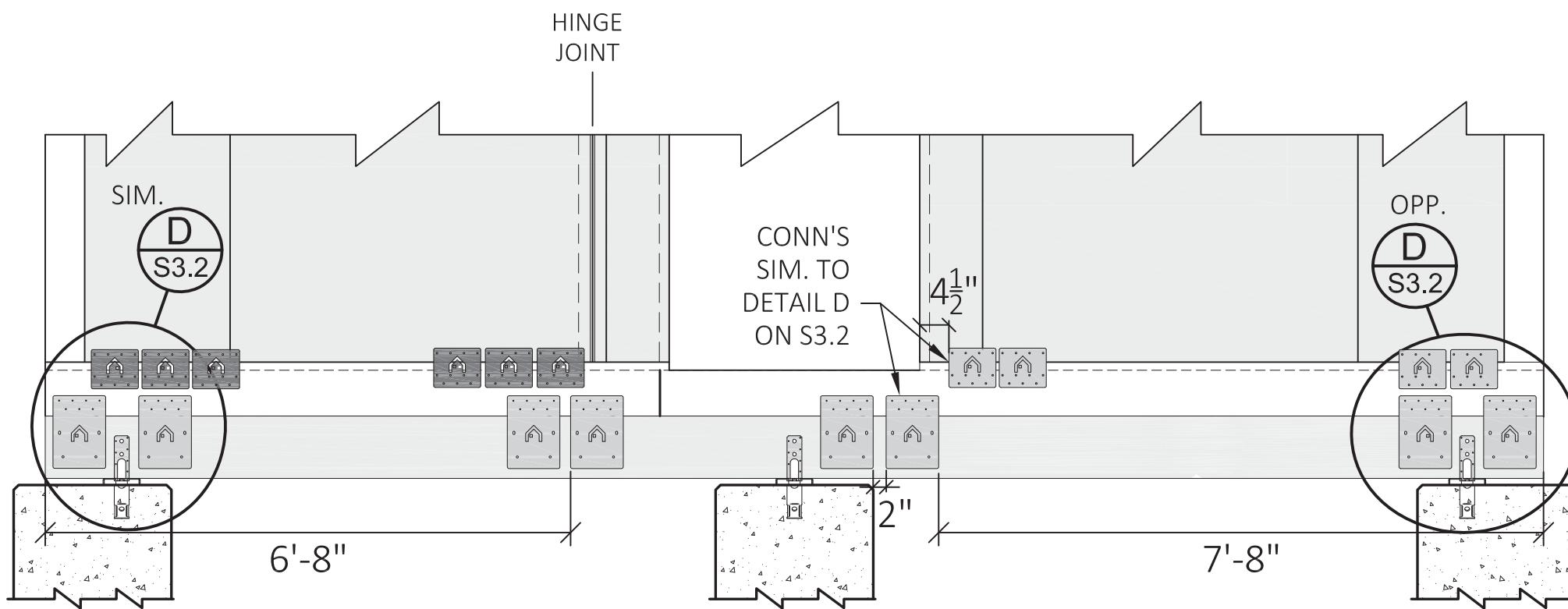
**ANCHOR PL LOCATIONS  
TO WOOD SUPPORTS  
( TRUSSES NOT USED )**

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY: MN	MODEL #: BXB-000009	+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 1/31/2024		
SHEET: S4.2		





**e** FRONT WALL



**f** BACK WALL

**CONCRETE PIER & BEAM  
OPTION**

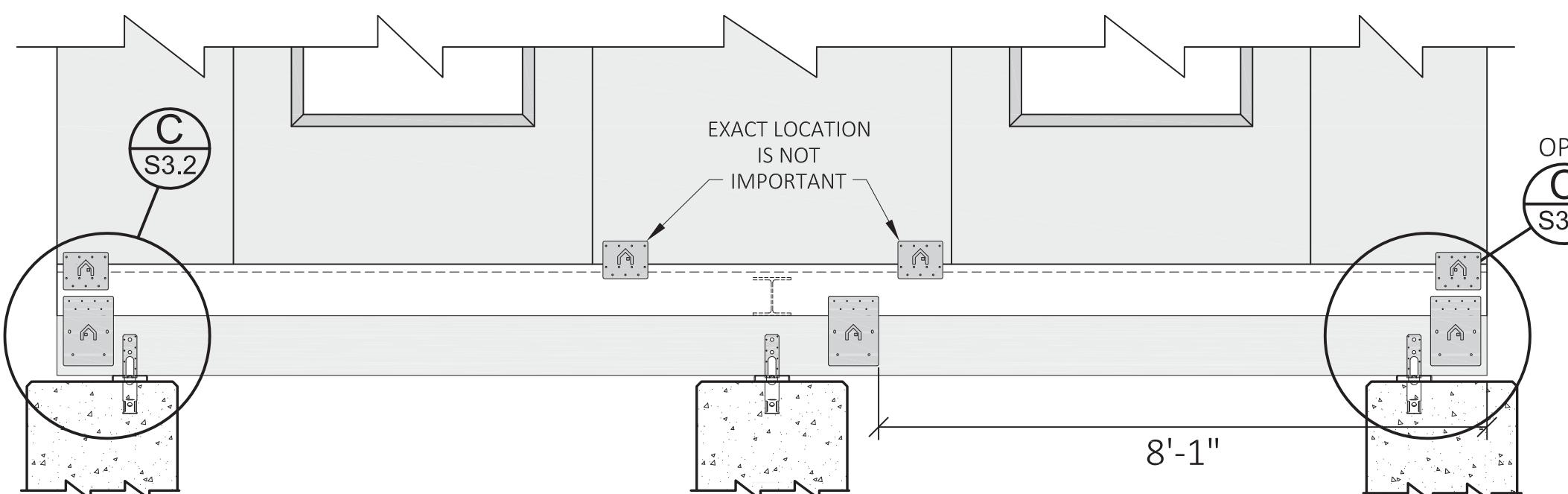
DESIGNED & BUILT BY OTHERS

FACTORY INSTALLED BOXABL PLATES  
(FIELD INSTALL IF ANY ARE MISSING)

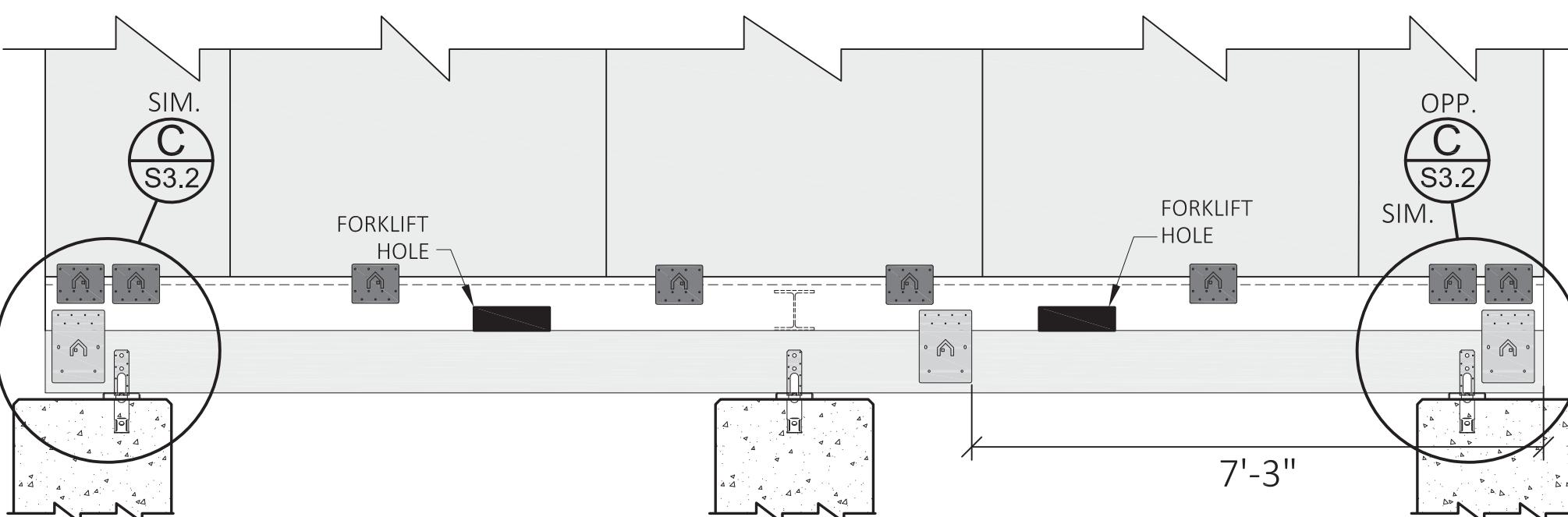
FIELD INSTALLED BOXABL PLATES

**ANCHOR PLATE REQ'TS WHEN  
ROOF TRUSSES ARE ADDED**

SEE S4.2 IF TRUSSES ARE NOT USED



**g** LEFT WALL



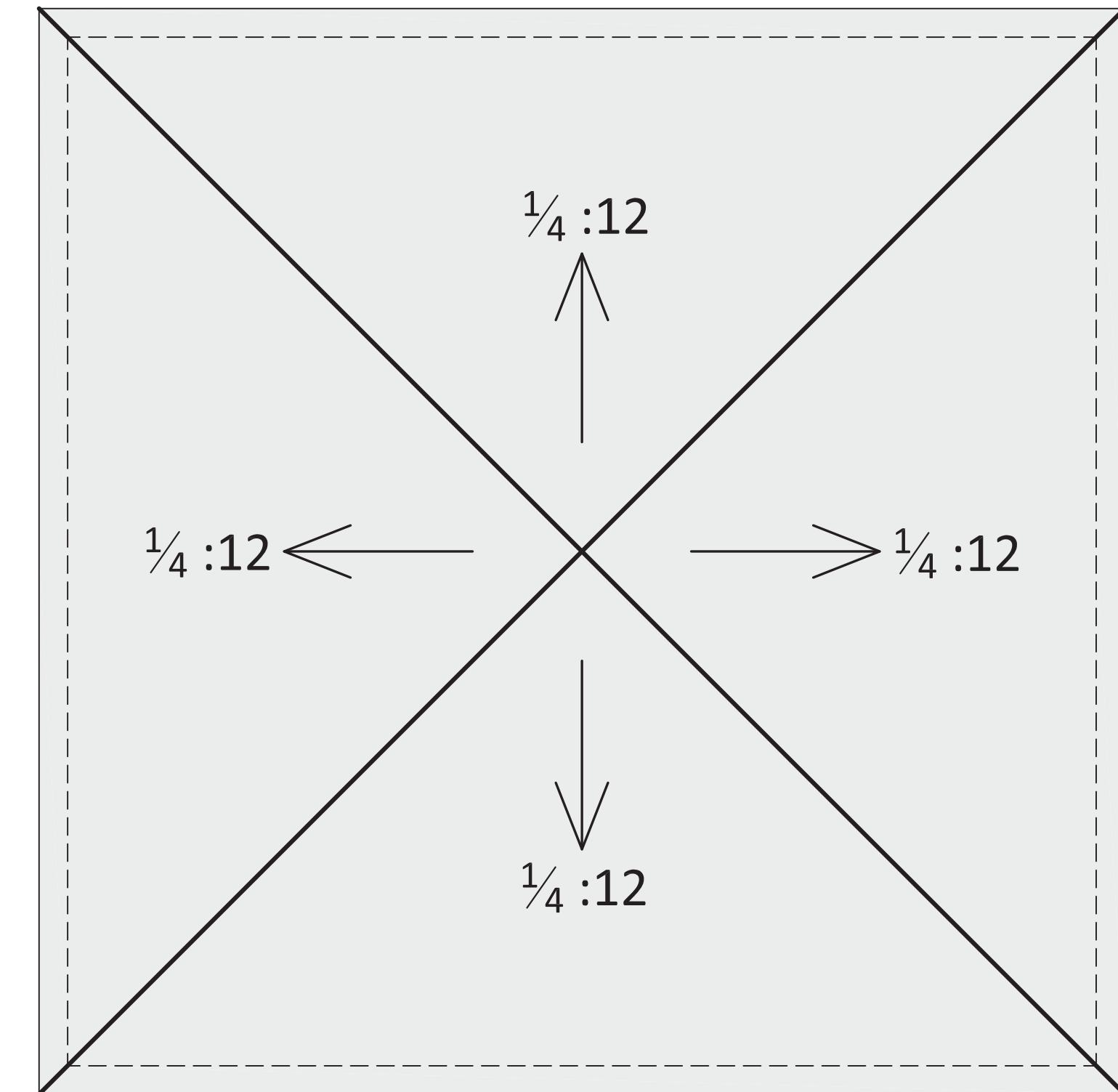
**h** RIGHT WALL  
KITCHEN SIDE

DATE:	REV:	DESCRIPTION:

**ANCHOR PL LOCATIONS  
TO WOOD SUPPORTS  
(TRUSSES USED)**

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY: MN	MODEL #: BXB-000009	+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 1/31/2024		
SHEET: S4.3		





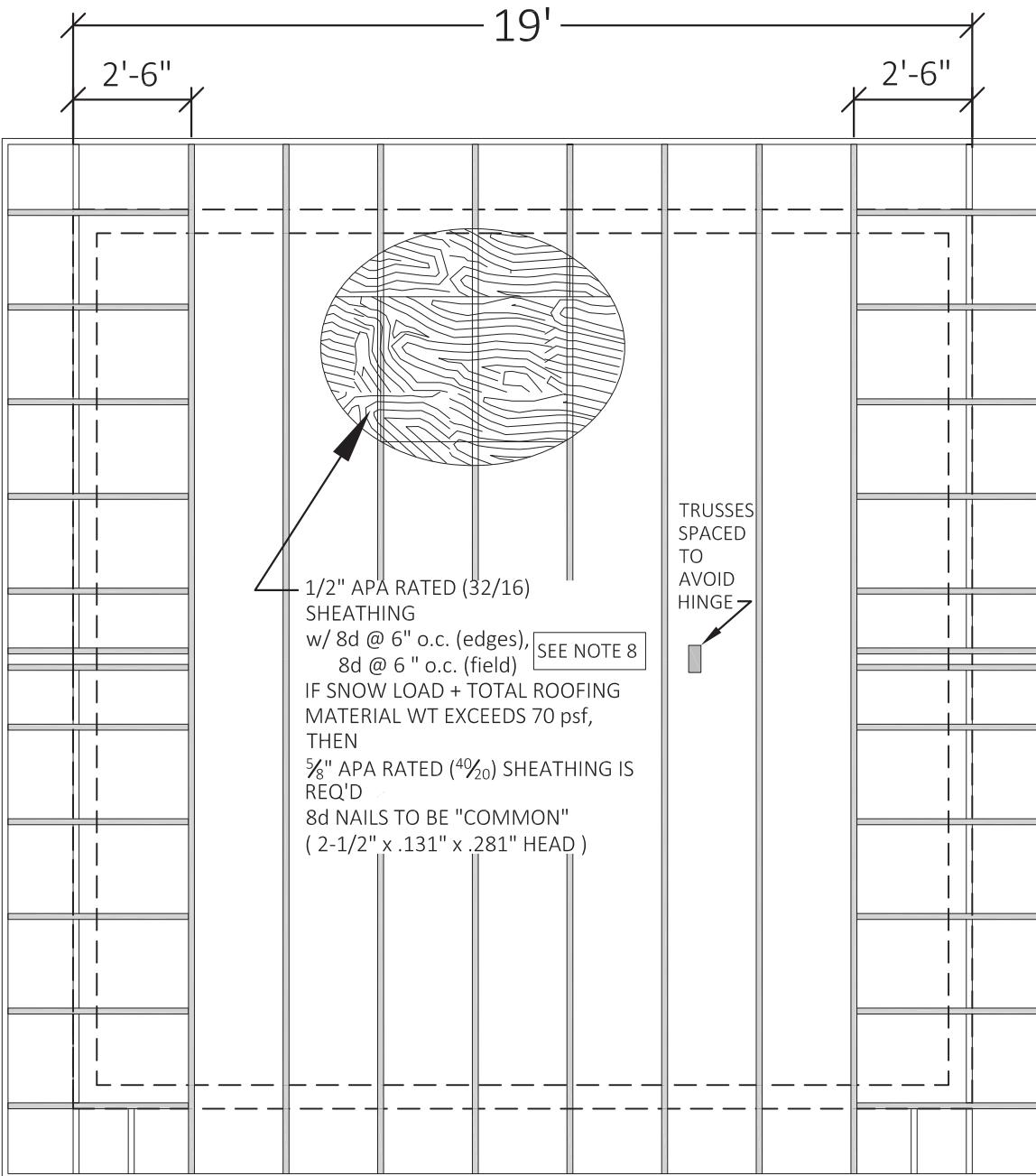
TPO ROOFING  
OVER  
TAPERED INSULATION  
GLUED TO ROOF.  
PER DESIGN BY OTHERS

DATE:	REV:	DESCRIPTION:

## LOW SLOPE ROOF OPTION

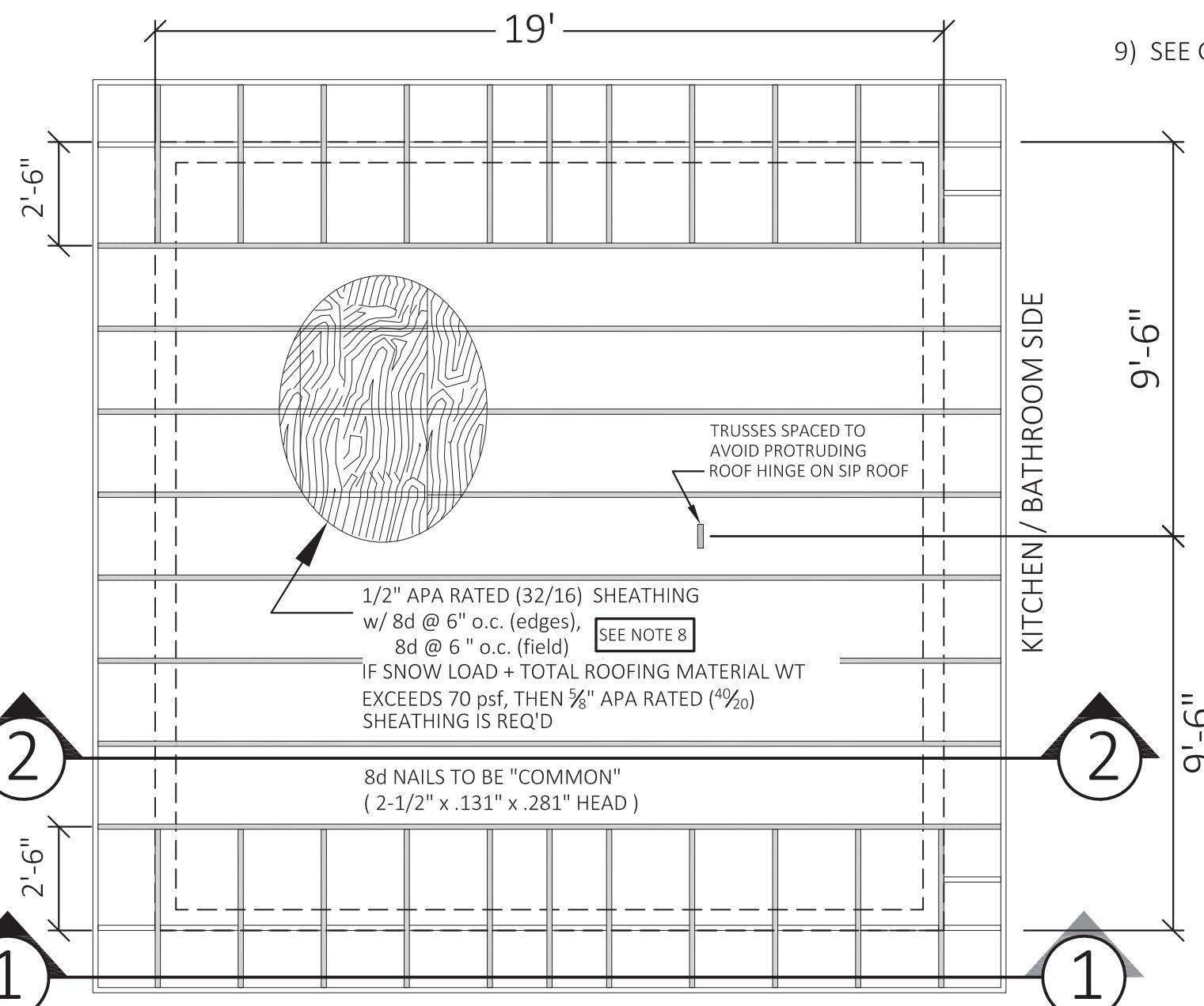
UNITS: FT-IN	MODEL: 1 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:	MODEL #: BXB-000002	+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/7/2024		
SHEET: S5		





### ORIENTATION #2

(REQUIRED IN SEISMIC CATEGORIES D, E and F)



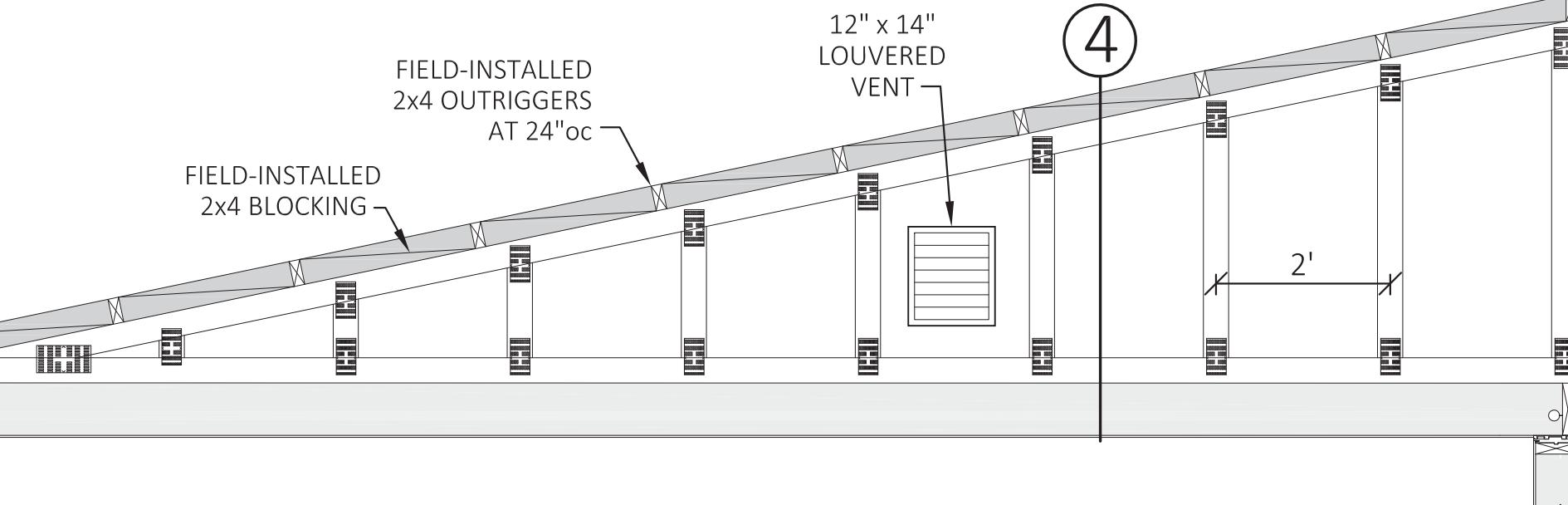
### ORIENTATION #1

(NOT ALLOWED IN SEISMIC CATEGORIES D, E or F)

### NOTES:

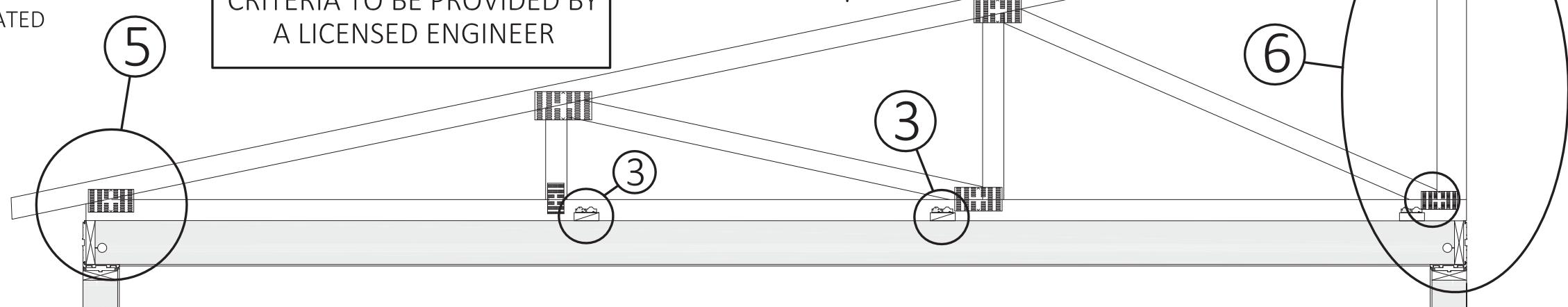
- 1) TRUSS MNFR TO DESIGN TRUSS ASSUMING SUPPORT ONLY AT THE WALLS.
- 2) ASSUME BOTTOM CHORD OF EACH TRUSS WILL BE RESTRAINED AGAINST LATERAL MOVEMENT IN BOTH HORIZONTAL DIRECTIONS BY THE A34 CLIPS INDICATED ON THE TRUSS PROFILES. DESIGN EACH TRUSS TO TRANSMIT LATERAL WIND FROM THE TOP CHORD TO THE BOTTOM CHORD.
- 3) INSTALL SIMPSON STRONG-TIE HARDWARE PER SIMPSON SPECIFICATIONS, U.N.O.
- 4) TO ACCOMMODATE POSSIBLE DEVIATIONS IN ACTUAL TRUSS GEOMETRY & CONSTRUCTION SHOWN ON THESE DRAWINGS, THE CONNECTION INFO SHOWN TO BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF INSTALLATION & COORDINATED WITH THE TRUSS MNFR'S SHOP DRAWINGS.
- 5) FOR ROOF PITCHES STEEPER THAN 5:12 CONTACT BOXABL FOR SPECIAL DESIGN.
- 6) STABILITY DURING ERECTION TO BE DESIGNED & SUPPLIED BY OTHERS.
- 7) CLAY OR CONCRETE TILE NOT ALLOWED IN SEISMIC CATEGORIES D, E, or F.
- 8) IF THE ULTIMATE DESIGN WIND SPEED IS OVER 130 mph, Exp. B OR 110 mph, Exp. C, THEN REDUCE SHEATHING EDGE AND FIELD NAIL SPACING TO 4"oc WITHIN 4 ft OF THE PERIMETER EDGE.

9) SEE GENERAL NOTES SHEET FOR MORE INFO.

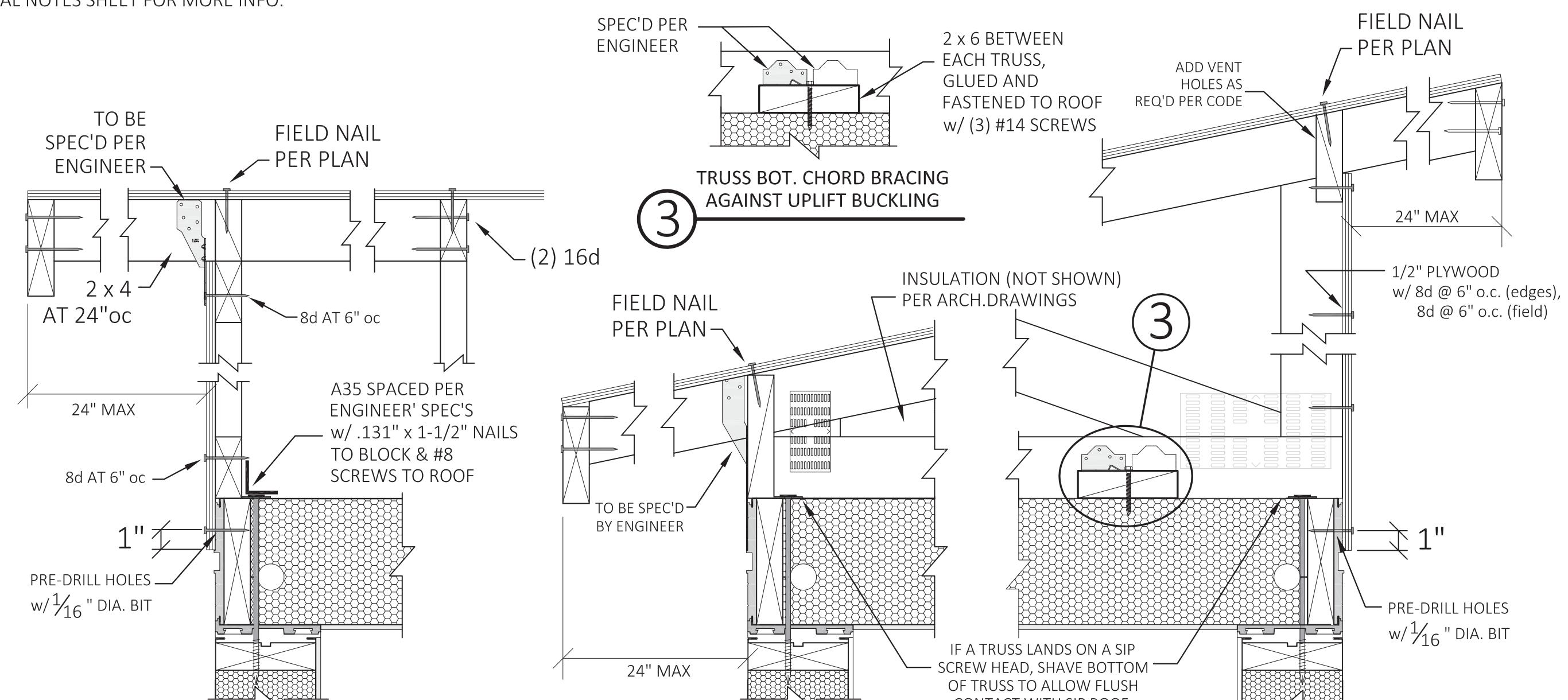


### PRE-ENGINEERED WOOD END TRUSS

SITE-SPECIFIC DESIGN CRITERIA TO BE PROVIDED BY A LICENSED ENGINEER



### PRE-ENGINEERED WOOD TRUSS



### GABLE END TRUSS TO ROOF EDGE

### LEFT EDGE CONNECTION

### RIGHT EDGE CONN.

DATE:	REV:	DESCRIPTION:
		THIS TRUSS PROFILE HAS NOT YET BEEN SUBMITTED FOR APPROVAL BY THE CA. DEPT. OF HOUSING & URBAN DEVELOPMENT. HOWEVER, IT CAN BE USED IF SUBMITTED (ALONG WITH CUSTOM, STAND-ALONE, SITE-SPECIFIC ENGINEERED CASITA DOCUMENTS) FOR LOCAL BUILDING DEPT. APPROVAL

THIS TRUSS PROFILE HAS NOT YET BEEN SUBMITTED FOR APPROVAL BY THE CA. DEPT. OF HOUSING & URBAN DEVELOPMENT. HOWEVER, IT CAN BE USED IF SUBMITTED (ALONG WITH CUSTOM, STAND-ALONE, SITE-SPECIFIC ENGINEERED CASITA DOCUMENTS) FOR LOCAL BUILDING DEPT. APPROVAL

## HIGH SLOPE SHED ROOF OPTION

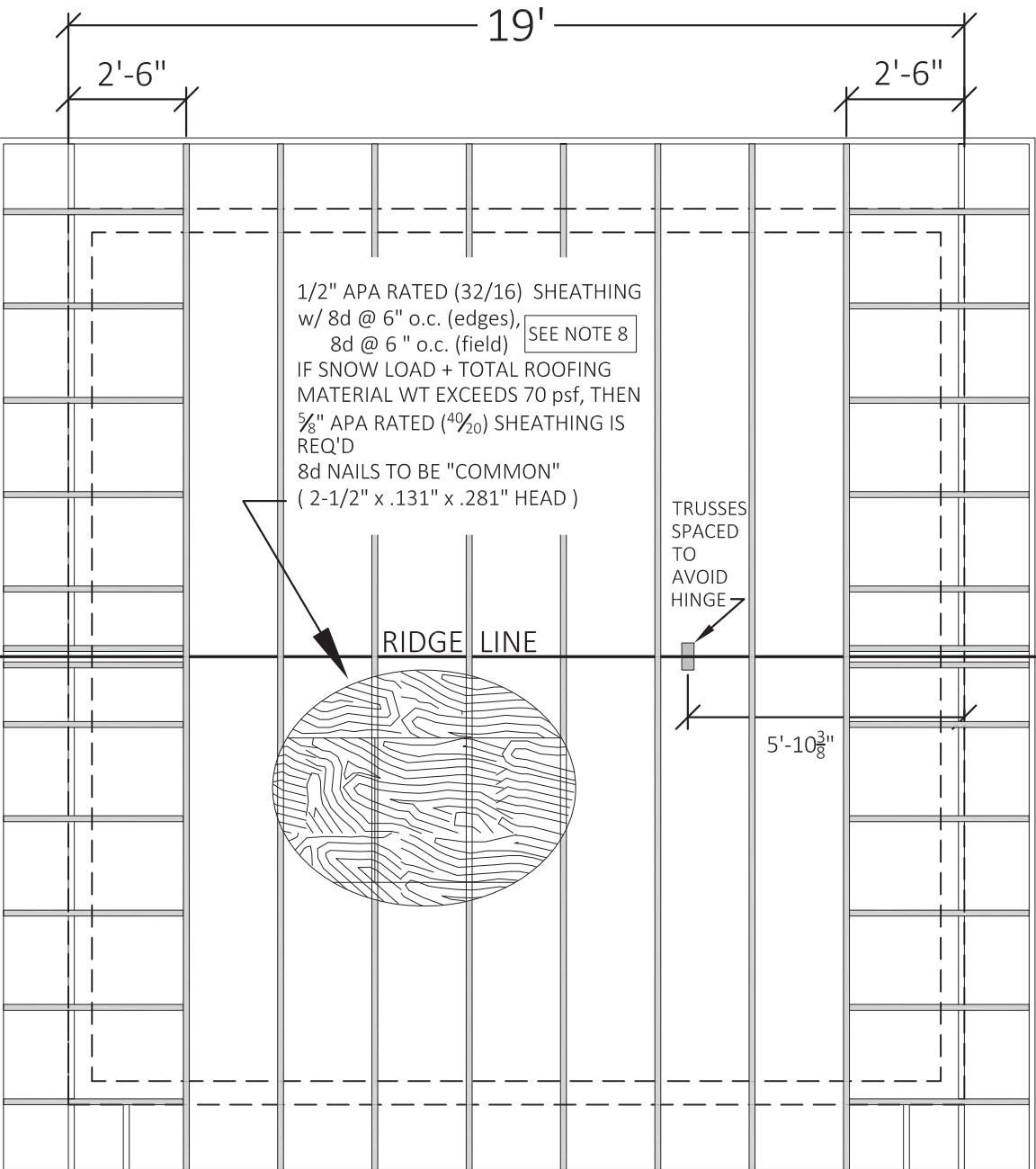
UNITS:	FT-IN	MODEL: 2 DOOR CASITA
CREATED BY:		BOXABL INC.
RELEASE DATE:	5/28/2024	5345 EAST NORTH BELT ROAD NORTH LAS VEGAS, NV 89115, USA
SHEET:	S6	+1(702) 500-9000 HELLO@BOXABL.COM



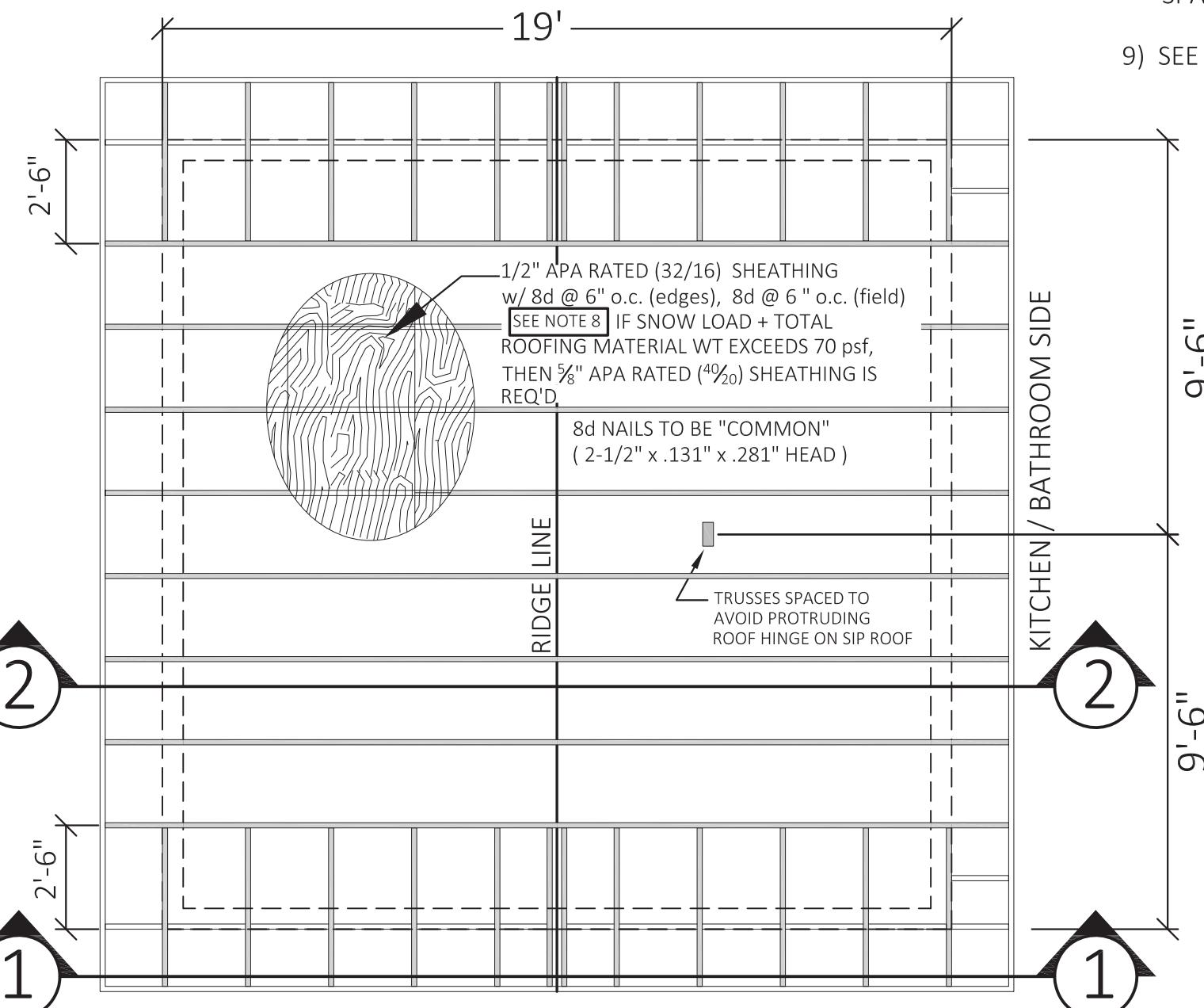
**NOTES:**

- 1) TRUSS MNFR TO DESIGN TRUSS ASSUMING SUPPORT ONLY AT THE WALLS.
- 2) ASSUME BOTTOM CHORD OF EACH TRUSS WILL BE RESTRAINED AGAINST LATERAL MOVEMENT IN BOTH HORIZONTAL DIRECTIONS BY THE A34 CLIPS INDICATED ON THE TRUSS PROFILES. DESIGN EACH TRUSS TO TRANSMIT LATERAL WIND FROM THE TOP CHORD TO THE BOTTOM CHORD.
- 3) INSTALL SIMPSON STRONG-TIE HARDWARE PER SIMPSON SPECIFICATIONS, U.N.O.
- 4) TO ACCOMMODATE POSSIBLE DEVIATIONS IN ACTUAL TRUSS GEOMETRY & CONSTRUCTION SHOWN ON THESE DRAWINGS, THE CONNECTION INFO SHOWN TO BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF INSTALLATION AND COORDINATED WITH THE TRUSS MNFR'S SHOP DRAWINGS
- 5) FOR ROOF PITCHES STEEPER THAN 5:12 CONTACT BOXABL FOR SPECIAL DESIGN.
- 6) STABILITY DURING ERECTION TO BE DESIGNED & SUPPLIED BY OTHERS.
- 7) CLAY OR CONCRETE TILE NOT ALLOWED IN SEISMIC CATEGORIES D OR E.
- 8) IF THE ULTIMATE DESIGN WIND SPEED IS OVER 130 mph, EXP. B OR 110 mph, EXP. C, THEN REDUCE SHEATHING EDGE AND FIELD NAIL SPACING TO 4" OC

9) SEE GENERAL NOTES SHEET FOR MORE INFO.



**ORIENTATION #2**  
(REQUIRED IN SEISMIC CATEGORIES D and E )



**ORIENTATION #1**  
(NOT ALLOWED IN SEISMIC CATEGORIES D or E )

## HIGH SLOPE GABLE ROOF OPTION

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

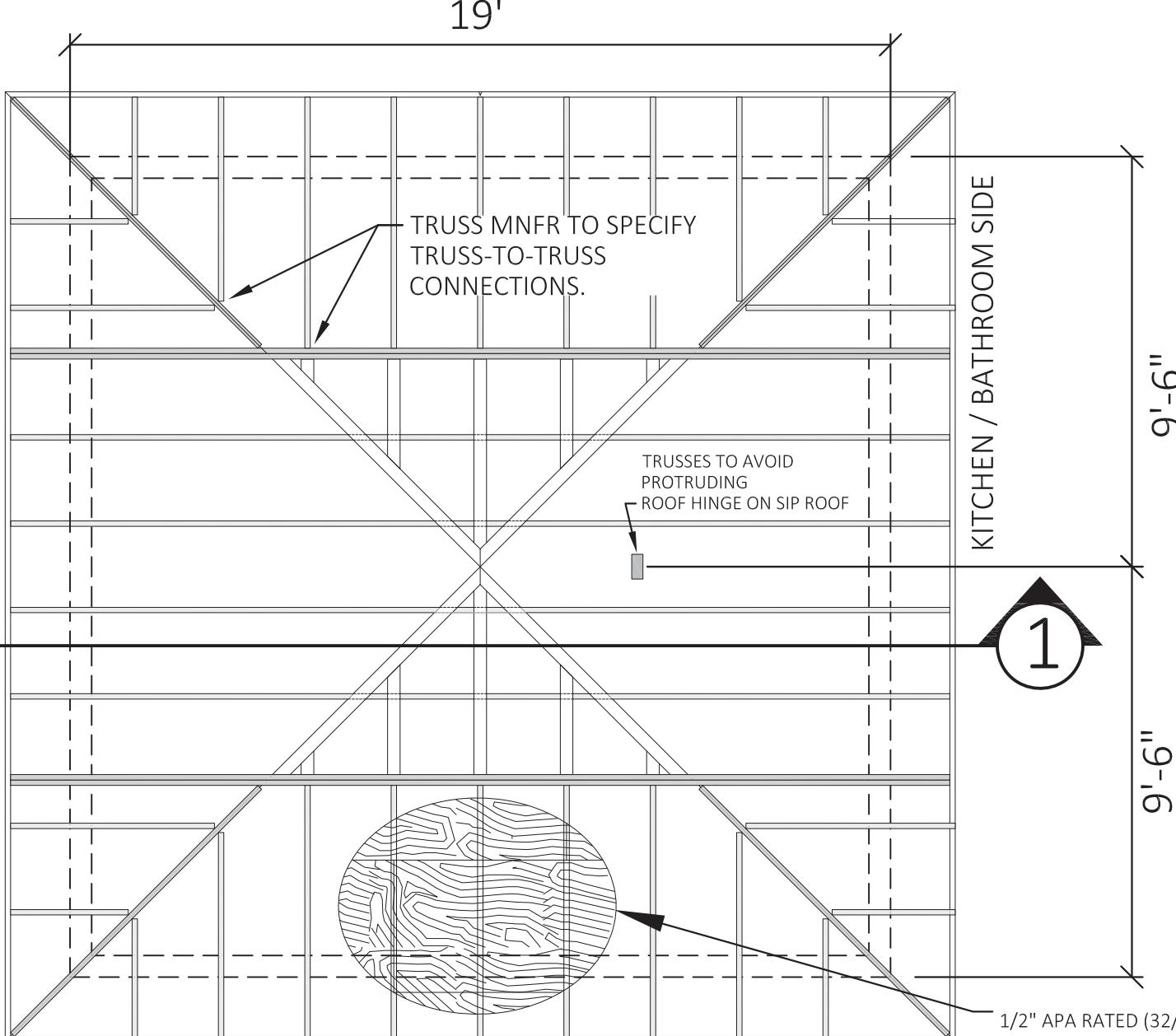
UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

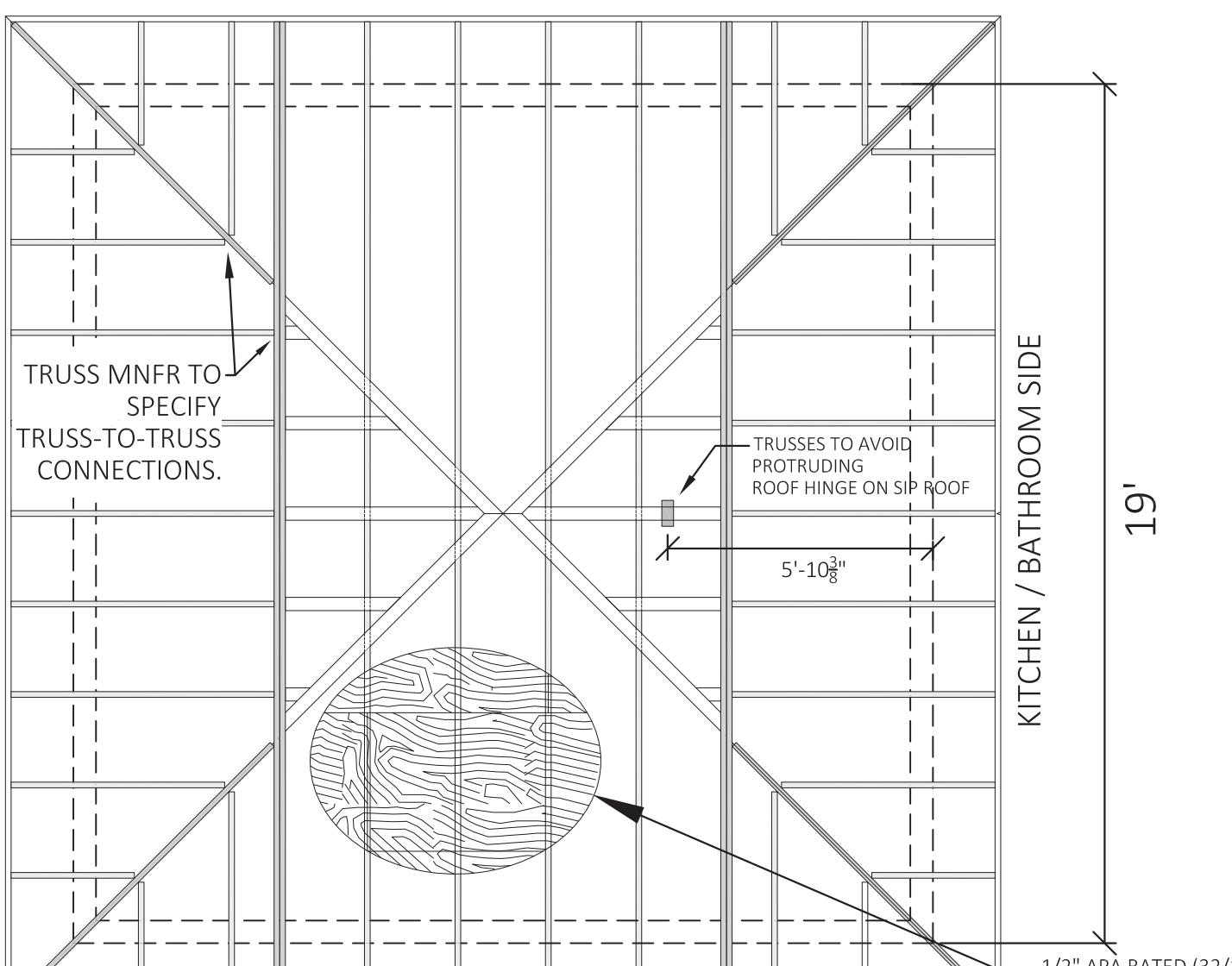
UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:		+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S7		

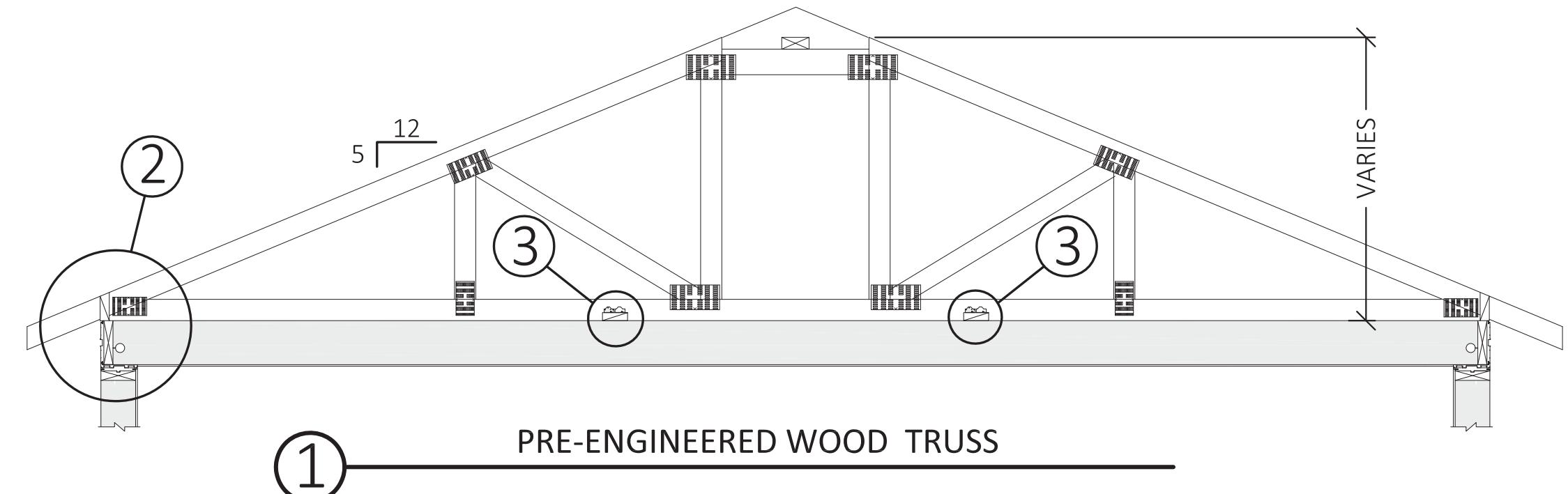
UNITS: FT-IN
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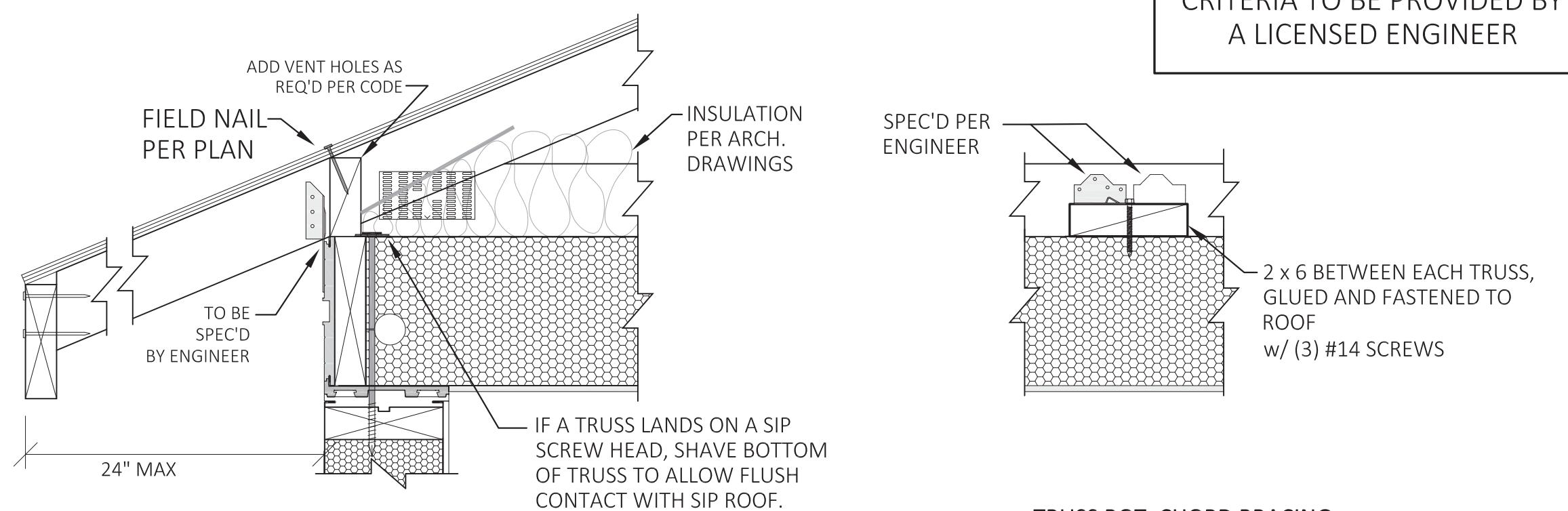
**ORIENTATION #1**  
(NOT ALLOWED IN SEISMIC CATEGORIES D or E)



**ORIENTATION #2**  
(REQUIRED IN SEISMIC CATEGORIES D OR E)



SITE-SPECIFIC DESIGN  
CRITERIA TO BE PROVIDED BY  
A LICENSED ENGINEER



#### NOTES:

- 1) ASSUME VERTICAL TRUSS SUPPORT ONLY AT THE WALLS.
- 2) ASSUME BOTTOM CHORD OF EACH TRUSS WILL BE RESTRAINED AGAINST LATERAL MOVEMENT IN BOTH HORIZONTAL DIRECTIONS BY THE A34 CLIPS INDICATED ON THE TRUSS PROFILES.  
DESIGN EACH TRUSS TO TRANSMIT LATERAL WIND FROM THE TOP CHORD TO THE BOTTOM CHORD.
- 3) TRUSS MNFR TO SPECIFY CONNECTION HARDWARE FOR MEMBERS FRAMING INTO 2-PLY GIRDERS TRUSSES.
- 4) INSTALL SIMPSON STRONG-TIE HARDWARE PER SIMPSON SPECIFICATIONS, U.N.O.
- 5) TO ACCOMMODATE POSSIBLE DEVIATIONS IN ACTUAL TRUSS GEOMETRY & CONSTRUCTION SHOWN ON THESE DRAWINGS,  
THE CONNECTION INFO SHOWN SHOULD BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED  
IN THE STATE OF INSTALLATION AND COORDINATED WITH THE TRUSS MNFR'S SHOP DRAWINGS.
- 6) FOR ROOF PITCHES GREATER THAN 5:12 CONTACT BOXABL FOR SPECIAL DESIGN.
- 7) STABILITY DURING ERECTION TO BE DESIGNED & SUPPLIED BY OTHERS.
- 8) CLAY OR CONCRETE TILE ROOFING NOT ALLOWED IN SEISMIC CATEGORIES D, E, OR F
- 9) IF THE ULTIMATE DESIGN WIND SPEED IS OVER 130 mph, EXP. B OR 110 mph, EXP. C,  
THEN REDUCE SHEATHING EDGE AND FIELD NAIL SPACING TO 4" o.c.
- 10) SEE GENERAL NOTES SHEET FOR MORE INFORMATION.

DATE:	REV:	DESCRIPTION:

## HIGH SLOPE HIP ROOF OPTION

UNITS: FT-IN	MODEL: 2 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:	MODEL #: BXB-000009	+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S8		



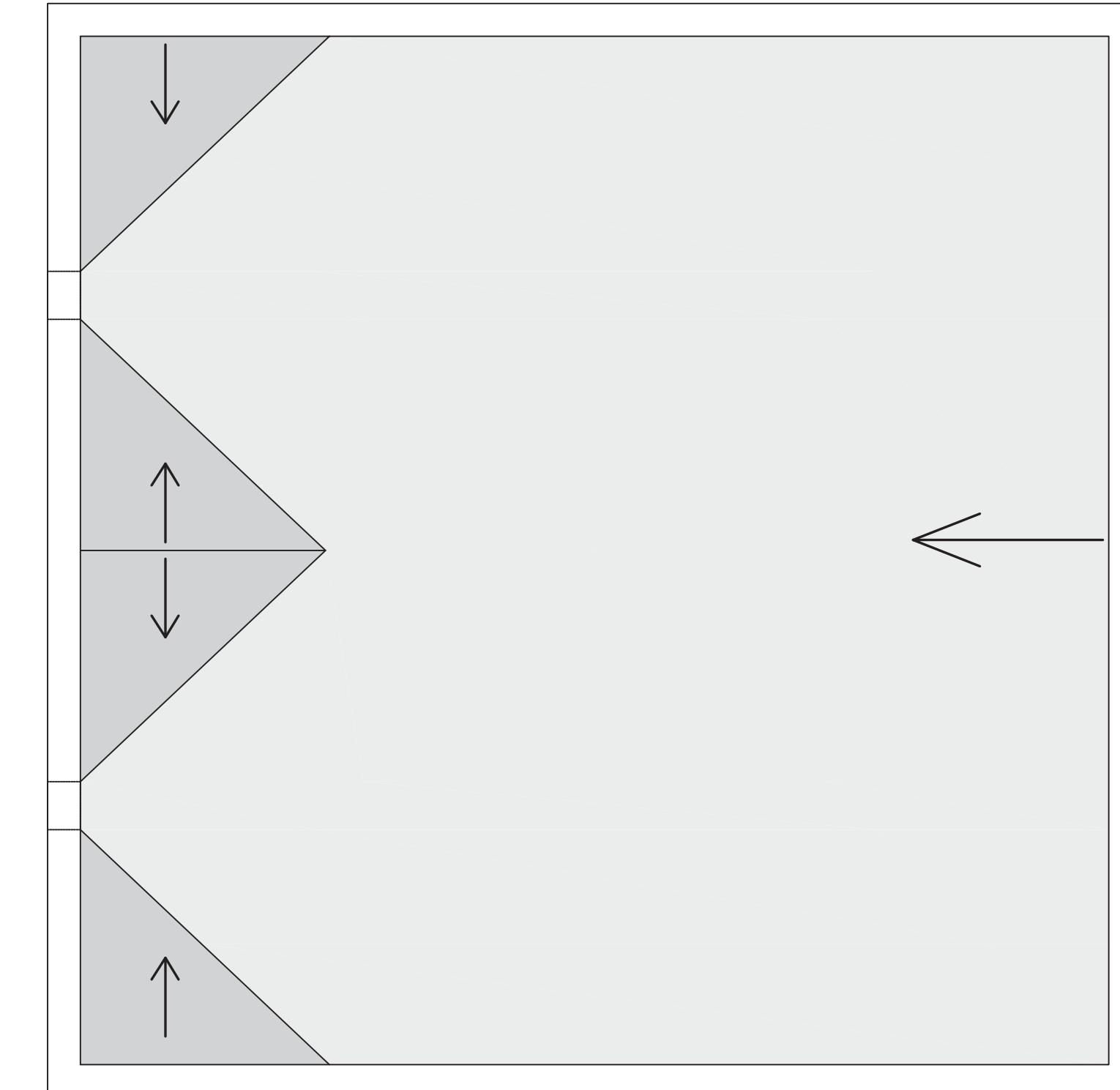
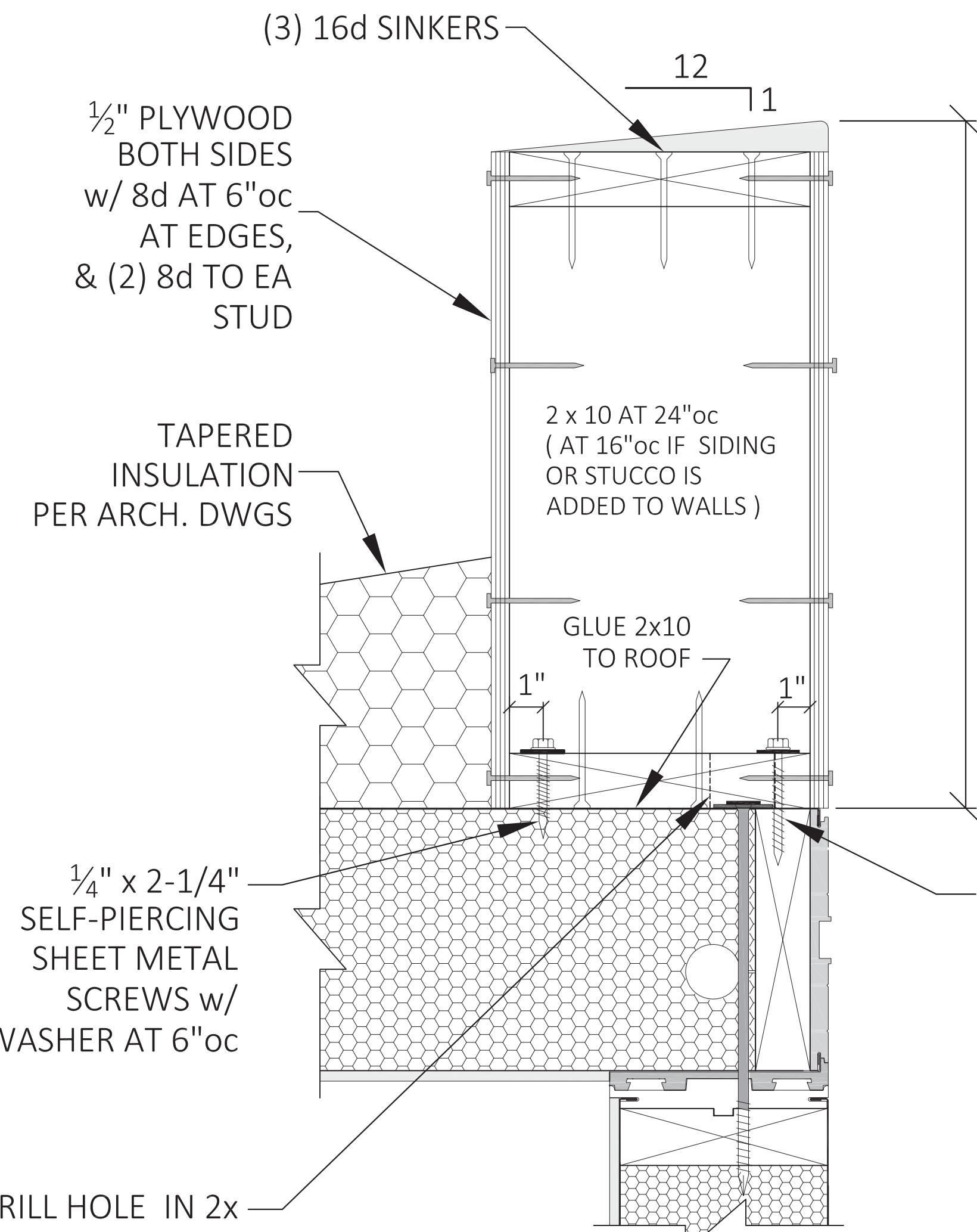
4

3

2

1

D



## ROOF EDGE

## ROOF PLAN

SEE ARCHITECTURAL DRAWINGS FOR MORE INFO ON: ROOF SLOPE, TAPERED THICKNESS AND DENSITY, AND COVERING MATERIALS OVER PARAPET SHEATHING AND TAPERED INSULATION.

DATE:	REV:	DESCRIPTION:

## LOW SLOPE PARAPET ROOF OPTION

UNITS: FT-IN	MODEL: 1 DOOR CASITA	BOXABL INC.
SHEET FORMAT: ARCH C		5345 EAST NORTH BELT ROAD
SHEET SCALE: NONE		NORTH LAS VEGAS, NV 89115, USA
CREATED BY:	MODEL #: BXB-000002	+1(702) 500-9000 HELLO@BOXABL.COM
RELEASE DATE: 5/28/2024		
SHEET: S9		



4

3

2

1